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Journal 1987

Hasting Reservation
Monterey Co.,
Calif.

RIBBLE,
D.O.
1987

JOURNAL

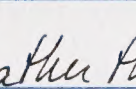
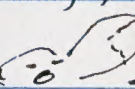
(1)

Hastings Natural History Reservation, Monterey Co., Calif.

Jan 31

Arrived at Hastings around 1400h. Will be here until Feb. 2 to collect saliva, ear tissue, and monitor P. californicus on Grids RC-1 and MC-1. Mostly clear, calm, hi in the 70's - very nice. Ground is damp and muddy in places from rain last week. Hills are beginning to turn green, trees are beginning to bud. Set traps on ~~RC~~ MC-1 first - put 38 non-bolding Shermans on top 2 rows and plan on leaving them in place. Took until 1700h to finish MC-1 because many of the traps were moldy from Dec. trip - Must remember to clean & dry wet traps. Next I set traps on RC-1, barely finished before dark ~ 1815hrs. Set 10 traps (sherman) along Big Creek bed at easternmost road crossing for P. californicus. Some high clouds settled in at sunset. Moon in western sky $< \frac{1}{4}$.

Feb. 1

(Left by 0645)
0730h - started on MC-1. 30min late because I had to change flat tire on truck. Skies clear, slight breeze, mid 30's. Anesthetized first 2 P. californicus for ear tissue, but quit doing it because it took a long time for animal to recover and snipping seemed to cause little agony. Note two lactating females and escape route. Didn't finish MC-1 until 1030hrs. Caught and kept ^{alive} 3 P. californicus on 10-trap line at Big Creek $\frac{1}{2}$ road. (Also released 1 P. boylii & 1 N. fuscipes). Started on RC-1 at 1050, finished 1300h. Began cutting ear tissue from straight cut , rather than . Returned to lab and relabelled all vials and covered with magic scotch tape before dropping in Nitrogen. Experimented with spinning down saliva, but no deposit was noted in bottom of tubes, so I'll leave samples as is (used 0.25ml of distilled H₂O to flush mouth). Afternoon mostly clear (some high clouds), warm 70's, ~~and~~ ^{and} calm. Began resetting traps on MC-1 @ 1500hrs.

RIBBLE, D.D.
1987

Journal

(2)

Hastings Reservation, Monterey Co., Calif.

Feb. 1 (cont) I searched for the nest of # 484 (♀ lactating), at station 9, 10. I dug around a lot ~~at~~ where she escaped, but it must have been a temporary refuge site - no nest was found. Put a nest box in the space I had dug out, buried under rocks, soil, & litter. Tried the same with # 1003, at station 10, 14 - Same results. Put another nest box there beneath shrubs. Finished resetting traps on MC-1 at ¹⁷⁰⁰~~1600~~ hrs, and went to RC-1. Submerged a nest box above (~ 2m away) station 6, 11. Finished resetting traps 1800 hrs. On the way home I set 5 Shermans along Big Creek at second road crossing (same location as last night).

2100 hrs - out on MC-1 w/ P. Kelley. It's partly cloudy, calm, temp ~ 50's. Dusted # 843 w/ green; she left a beautiful trail to the NW, but didn't circle around to her nest area. I checked on her later (~ 30 min), but she still hadn't circled around back to her nest. Finished checking traps at 2300 hrs.

Feb. 2 0645 hrs - It's overcast, calm, upper 40s this morning. M. Stanbach is helping me this morning. Finished MC-1 around 0830 hrs. Caught 1 ~~song~~, *Neotoma*, *P. boylii*, and *P. maniculatus* in traps along Big Creek, all released untagged. Finished checking RC-1 by 1000 hrs. Returned to lab & loaded up. Left for Berkeley by 1100 hrs.

Tilden Regional Park [Tilden Nature Center], Contra Costa Co., Calif.

Feb. 13 At Tilden for 107 field trip to watch Brown Towhees. Found a dead ^(Cat # 757) *Scapanus latimanus* in grass field, surrounded by mixed oak woodland. Found one hole in skin in left thorax with left shoulder hemorrhaged. Rained heavily the night before, and cloudy, rain-off on this morning.

RIBBLE, D.O.
1987

Journal

(3)

Hastings Natural History Reservation, Monterey Co., Calif

March 26 Arrived at Hastings today around 1300hrs. Will be here until the 29th to trap grids RC-1 and MC-1, and to hopefully locate nests. It's clear, calm, mid-70's today. The hills are mostly green, the buckeyes & snowberry have greened up, and a few flowers are blooming. The creek through MC-1 is dry. Set traps on MC-1 from 1400 to 1600h. There was no visible *Peromyscus* activity in the two nest boxes I set out in Feb. I should relocate those this weekend. Set traps on RC-1 from ^{1610 to 1710} ~~1410 to 1515~~. Again, no activity in the single nest box on this grid. 2200hrs - checking traps on MC-1. It's clear, calm, and cool (~low 50's). There is no moon. Finished checking traps at 2330h. Note number of new *P. californicus*, presumably born on grid, and lack of *P. boylii*.

March 27 The sun rises around 0630, but it is light by 0540. Started checking traps on RC-1 at 0630. It's clear, calm, and cool (upper 30's). There was frost on the truck windshield. Finished checking traps at 0815 on RC-1. Note that 2 animals were dusted. Finished checking traps on MC-1 by 1000hrs. Note that 3 animals were dusted. It warmed up quickly this morning with a slight breeze (5-10mph) and clear skies. Returned to cabin to catch up on school work. 1400h - back on RC-1. Set 2 trap transects extending east (Trapline A) and west (Trapline B) from grid along Robertson Creek. Each trapline consists of 10 stations (1-10), 2 traps per, 15-20m between stations. Traps baited with "Cob" mixture from P. Kelley. Finished resetting traps on grid at 1550h. Set traplines out from MC-1 in the same fashion as on RC-1. Finished resetting MC-1 at 1800hrs. Caught #1024, *P. californicus* at station 9, 10. Released it in good shape.

RIBBLE, D.O.
1987

burial

(4)

Hastings Reservation, Monterey Co., Calif.

March 27 (cont) 2125h - Out checking traps on MC-1. It's clear, slight breeze (~5mph), and cool (upper 40's)
2140h - Redusted # 1022 w/ Rod. - it followed it to its escape site ~7m due west of station. Site consists of rocks (~12in diameter) lodged into base of buckeye. Entrance clearly marked with powder, and littered with acorn shells and buckeyes. 2201h - Dusted # 796, ♀-lactating, with green. Followed her trail up to a hole beneath a moss-covered rock (1 1/2' diameter). I marked it with a strip from my handkerchief. It's ~4m south of 10, 16.
2230 - followed # 1934 green trail to old Neotoma midden. Bur above station 9, 12. Marked it with strip of handkerchief. 2259h - redusted 1934 at 8, 13.
Spotted ^{Dacory (P. rocyon later)} ~~Great Horned Owl~~ in live-oak above 8, 14 - large, orangish eye-shine. I attempted to chase it off by throwing several rocks at it, but it didn't seem very alarmed. Finished checking traps at 2320hrs
2340hrs - on RC-1 checking traps.

March 28

Ht: 72
10: 34

Finished checking traps on RC-1 at 0100h.

0630h - checking traps on RC-1. It's clear, calm, temp low 40's.

Trapline B results:

St.	No.	Spp.	Wt.	Sex	Age	Brdg.	Trap Mortality
(N) 2	759	<u>S. townsendi</u>	7	♀	M	lactating	
3	02120	<u>P. boylii</u>	25	♂	M	scrotal	
(N) 5	030	<u>E. megalotis</u>	8	♂	M	TND	
5	835	<u>P. californicus</u>	45	♀	M	perf. parous.	
6	0120	<u>P. maniculatus</u>	19	♂	M	TND	
6	1020	<u>P. californicus</u>	35	♂	M	TND (but close)	
(N) 7	1048	<u>N. fuscipes</u>		♀	M	perf. parous	
(N) 8	02200	<u>P. boylii</u>	28	♂	M	TND (close)	
(N) 8	1051	<u>P. californicus</u>	45	♀	M	lactating	
N 9	020	<u>E. megalotis</u>	10	♂	M	scrotal	
(N) 9	760 ^(cat)	<u>S. townsendi</u>		♂	M		
(N) 10	1052	<u>P. californicus</u>	38.5	♂	M	scrotal	

RIBBLE, D.D.
1987

JOURNAL

(5)

Hastings Reservation, Monterey Co., Calif.

March 28 Cont

Trap Results Trapline A.

St.	No.	Spp.	Wt.	Sex	Age	Body	
1	0430(?)	<u>P. boylii</u>	23	♂	M	TND	
(N) 1	1054	<u>N. fuscipes</u>		♂	M	Scrotal	
(N) 2	0130	<u>P. maniculatus</u>	17	♀	M	imp, parous	
(N) 2	1055	<u>N. fuscipes</u>		♀	M	imp. parous	
(N) 4	0100	<u>M. californicus</u>	42	♀	M	imp, parous	
5	1001	<u>P. californicus</u>	42	♀	M	perf, parous	
N 6	02310	<u>P. boylii</u>	23	♀	M	imp, parous	
(N) 6	0230	<u>P. maniculatus</u>	20	♂	M	Scrotal	
N 7	1056	<u>N. fuscipes</u>		♀	M	imp, beels parous (?)	
N? 8	1057	<u>P. californicus</u>	39	♀	M	imp, parous	rt. ear ripped off, but I don't think it's from previous ear tag
N 9	02320	<u>P. boylii</u>	23	♀	M	imp, parous	
9	Didn't tag	<u>N. fuscipes</u>					
N 10	0300	<u>Microtus californicus</u>	57	♂	M	TND	
N 10	1058	<u>P. californicus</u>	42	♂	M	TND	

Finished RL-1 and transects at 0920hs. On to MC-1 and transects

Trapline B (MC-1)

(N) 10	0130	<u>P. boylii</u>	23	♂	M	TND	Natural to clip ^{12.3}
(N) (10)	02120	<u>P. boylii</u>	24	♀	M	imp., parous	
(N) 9	1059	<u>P. californicus</u>	40	♂	M	scrotal	
(N) 9	1060	<u>N. fuscipes</u>		♂	M	scrotal	
(N) 8	02130	<u>P. boylii</u>	22	♂	M	TND	
(N) 8	02140	<u>P. boylii</u>	20	♀	M	imp, nullip.	
(N) 7	02300	<u>P. boylii</u>	23	♂	M	TND	
(N) 6	1061	<u>P. californicus</u>	38	♂	M	rnd (clow)	
(N) 6	1062	<u>P. californicus</u>	43	♀	M	Parturite, feels nulliparous (?)	
N 5	1063	<u>P. californicus</u>	38	♀	Sub.	imp, nullip/allgray/ 2 white bands on tail	
4	1022	<u>P. californicus</u>		♂	M	From trap grid - see Journal Grid Date	
2	1038	<u>P. californicus</u>	43	♀	M	Perf, parous, tits swollen but not lactating	
2	1046	" "	27	♂	I	TND	
1	494	<u>P. boylii</u>					See Grid Results

RIBBLE D.D.
1987

Journal

(6)

Hastings Reservation, Monterey Co., Calif

March 28 (cont)

Trapline A (MC-1)

St.	No.	Sp.	Sex	Age	Reprod
(N) 1	02220	<u>P. boylii</u>	♂	M	TND
(N) 2	0300	<u>P. californicus</u>	♀	M	imp. nullip.
3	1026	<u>P. californicus</u>	♂	M	scrotal
N 3	1067	<u>P. californicus</u>	♀	early M	imp, nullip.
5	1035	<u>P. californicus</u>	♂	M	scrotal
(N)(5)	1068	<u>P. californicus</u>	♂	early subadult	TND
(N) 6	02230	<u>P. boylii</u>	♂	M	TND
(N) 10	02240	<u>P. boylii</u>	♂	M	TND
(N) 10	02310	<u>P. boylii</u>	♂	M	TND

Finally, finished checking traps at 1145h. At 1430 hrs I went out to MC-1 to try and locate dusted animals and relocate the 2 nest boxes. First, I dug up where #796 escaped last night. I found no nest sign, but did find old acorn & buckeye shells. This locality (under rocks) was very cool and damp, probably too much so for a nest. I buried the nest box under the biggest rock, and filled in the sides with smaller rocks. I also left about 1/4 cup of oats in the box. Next, I dug up some of 1934's escape site - an old Neotoma midden ^(above 9, 12, ~3m). Eventually this lead to a hollow in a buckeye root which I couldn't reach in. The locality was very dry, with lots of dead grass & moss lining passageways. I put a nest box in the middle of the midden and recovered it with sticks and moss. Finished resetting MC-1 and transects by 1630 and moved on to RC-1 to ~~for~~ reset traps. Finished RC-1 by 1745h.

RIBBLE, D.O.
1987

JOURNAL

(7)

Hastings Reservation Monterey Co., Calif.

March 28 (cont) 2100hrs - out checking traps on MC-1. It's cool (low 50's), clear, ~~and~~ mostly calm (winds up to 5 mph). No moon out. 2114h. #1023 (♂ scrotal) covered with red powder - ears, limbs, tail, feet, back, chest. 2120h. #762 (♂ scrotal) covered w/ green powder. Finished checking traps at 2215hrs

March 29
hi: 73
lo: 36

0630hrs - checking traps on RC-1. It's cool (low 40's), clear, and calm this morning

Trapline B results

St.	No.	Spp.	Sex	Age	Sex	Class	Breeding
(N) 1	030	<u>R. megalotis</u>	♂	♀	M	Impu	Parous
3	1020	<u>P. californicus</u>	(Recap) - Covered with Red Pigment				
N 3	030	<u>P. californicus</u>	23	♂	M	Scrotal	
N 4	040	"	20	♂	M	Scrotal	
(N) 5	710 (cat no)	<u>R. megalotis</u>	7.5	♂	M	TWO	Trap Mortality.
5	035	<u>P. californicus</u>	Recap				
6	030	<u>R. megalotis</u>	B Recap				
6	0120	<u>P. maniculatus</u>	18	♂	M	TWO	
7	1048	<u>N. fuscipes</u>	Recap				
8	02200	<u>P. boylii</u>	"				
9	1051	<u>P. californicus</u>	" Lactating				
N 9	0300	<u>M. californicus</u>	30	♀	M	Parous	Parous
10	—	<u>R. megalotis</u>	escaped prior to handling				

Trapline A results:

1	0330	<u>P. boylii</u>	♂	M	TWO	
2	0300	<u>M. californicus</u>	Recap.			
N 3	03200	<u>P. boylii</u>	22	♀	M	Imp, nulliparous
5	1001	<u>P. californicus</u>	Recap			
5	1015	"	"	"	"	- scrotal, subadult Pelage
N 6	0300	<u>P. maniculatus</u>	17	♀	M	Imp, nullip.
7	1056	<u>N. fuscipes</u>	Recap			
8	—	<u>N. fuscipes</u>	M Not tagged			
10	1057	<u>P. californicus</u>	Recap			
N 10	01100	<u>P. maniculatus</u>	21	♀	M	Imp. parous
10	0230	"	"	"	Recap	} same trap

Finished 1020h. Moved on to MC-1.

ZIBBLE, D.D.
1987

JOURNAL

(8)

Hastings Reservation, Monterey Co., Calif.

March 29(cont)

Trapline B (MC-1) Results

No.	Sex	Age	Sp	Wt	Recap	Notes
10	♂	1/2	P. boylii		Recap	
9	1061		P. californicus		Recap	
8	02140		P. boylii		Recap	
8	02130		"		"	
6	02300		"		"	
5	1063		P. californicus		"	
(N) 5	1070		"			36 ♂ M TND (close)
4	1062		"		Recap	
3	02010		P. boylii			♂ M TND
2	1038		P. californicus		Recap	Covered with Red Pigment
1	494		P. boylii		Recap	

Trapline A (MC-1) Results:

N 2	1026		P. californicus		Recap	
N 2	020		E. megalotis	B	♂	M scrotal
3	1035		P. californicus		Recap	
3	1067		"		"	
(N) 5	1071		P. californicus			37 ♂ M scrotal
N 6	1072		"			51 ♀ M Pregnant (palpable) 10mm white tail tip
10	02240		P. boylii		Recap	
10	02310		"		"	

1222hrs - caught immature P. californicus at 10,6 w/ green powder on ears. Tiny animal. Not biting. White tail tip. Upon release it didn't run away but stayed under Bay tree roots and vocalized with a high pitched squeak, 5-20/min.

Finished checking traps by 1300hrs. Packed up and headed back to Berkeley.

June 1

Official hi = 92
10 = 52

Arrived at Hastings at 1300hrs (Daylight Savings Time). Will be here until the 7 June. Plan on trapping grids RC-1 and MC-1, and probably extending these grids. It's clear, slight breeze, mid 80's today.

Set traps (2 per station) on MC-1 from 1400 to 1540hrs. The stream through the grid is dry. ^{Buckeye leaves are brown & burned on individual leaf edges} Shrub cover dense and very green.

Set traps (2 per station) on RC-1 from 1600 to 1700hrs. Robertson creek is running at about the same level as always. New growth of blackberry & poison oak amazing. Many former trails and trap stations obscured by new growth. I'm going to wait until the morning to check traps, to get a feel for what is present for possible fluorescent pigment work.

KIBBLE, D.O.
1987

JOURNAL

(9)

Hastings Natural History Reservation, Monterey Co., Calif.

June 2

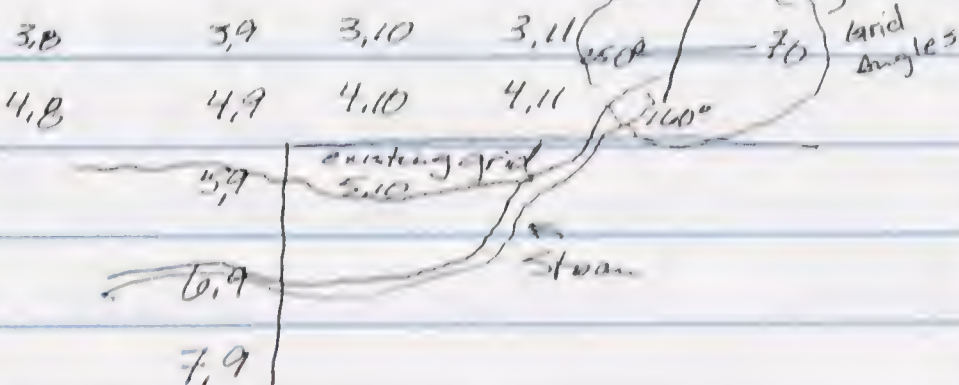
hi=95

lo=52

0550hrs - started checking traps on MC-1. It's clear, calm, low 70's (very comfortable). It begins getting light by 0500, but it's not light enough to work until ~0540hrs. Finished MC-1 by 0640hrs - sun not over hill, yet.

Only 8 total captures! Started checking traps on PC-1 at 0650hr. Finished PC-1 at 0820hrs. Sun is up, it's clear and calm. From 1030hrs to 1600hrs I worked on setting up new stations on PC-1. I added ¹¹ new stations as follows:

Some of these, eg. row 3, are experimental to see if there are any californicus.



Reset traps on PC-1 from

1610 to 1720hrs. Found #1078 dead (Cat # 764) at station 5,17 -

apparently it entered the trap during the morning. Reset MC-1 from 1730 to 1800hrs.

It was clear and warm today (high in upper 80's)

2310hrs - out on Grid PC-1 checking traps. It's clear, calm, mid 70's. The moon is $\frac{3}{4}$, in the west horizon at about 10 $\frac{1}{2}$ o'clock. 2325h - dusted #835

w/ Red at 7,10. She escaped to NW under downed tree litter

2355 - Dusted #1088 ♀ w/ DEANITE at station 5,17. She escaped to NW

under litter. Finished checking traps at 2359h. Not many

animals captured, but I heard a lot of activity. I left Necturus in traps with extra food to avoid catching them

twice. Many traps were closed with no animal - perhaps a racoon has discovered the grid.

June 3

hi=86

lo=40

0610hr - began checking traps on MC-1. It's clear, calm, mid 70's.

Finished MC-1 by 0710hrs. PC-1: dusted #835 w/ Red at 7,10.

Redusted #1009 w/ DEANITE at 6,17. Finished checking PC-1 at 0850hrs.

Went into town today to pick up Kent Nybakken who will be helping me until tomorrow.

RIBBLE, D.O.
1987

JOURNAL

(10)

Hastings Natural History Reservation, Monterey Co., Calif.

June 3 (cont) Kent and I reset traps on RC-1 and MC-1 between 1600:1800hrs. Today seemed a little cooler, but still warm.

June 4 0400hrs - out on RC-1 to check trails of dusted animals. It's foggy, calm, temp in 60's. The fog rolled in around 0300hrs (P. Kelly).
hi = ~~80~~
lo = 45

0430 - redusted #1009 with orange at i.e. 17. We followed her in circle to the NW, she eventually headed off to the south of the station under the fallen oak. Should release her in this area next time. 0450 - caught #102007 at F, 10 covered with Red. The trap also has pigment, but it looks like more pigment than from the trap alone. He escaped ^{to} the same spot as #835. 0550hrs - redusted #835 at 6, 11. She escaped to the stream bank above station 6, 10 (to south).

I should check this area tonight with the black light. Finished checking traps on RC-1 at 0630. The fog & cool night seems to have made a difference in captures. 0640 - began on MC-1. It's still foggy. Finished checking MC-1 @ 0800. The fog has cleared. I ~~returned~~ ^{placed} #1073 in a cage in the lab for recuperation. 1300hrs - found her dead in cage and prepared as specimen (#766). She had hemorrhaged around her rt. rear leg, perhaps this was cause of death. This afternoon was cooler than the previous day. Temp \approx low 80's. Reset traps on RC-1 from 1630 to 1800hrs. Set 4 Tomahawk traps and 1 large carnivore live trap on the grid to see if I can catch what is setting off the traps.

Reset traps on MC-1 from 1800 to 1850hrs. The moon is overhead and about 1/2 full.

June 5 0405h - out on RC-1 to check traps. It's cool (upper 60's), calm, and clear.

hi = 81 0445 - redusted #835 w/ Red at F, 10. Again, she escaped to the bank

lo = 55 N of station F, 10 and I lost her trail. Eureka! I think I located the nest inside the stump ~~at~~ ⁱⁿ the fallen oak debris. There is a small (50mm diameter) cup shaped nest made of grass in the bottom. I'll come back later in the day for a more thorough investigation.

Hastings Natural History Reservation, Monterey Co., Calif.

June 5 (cont)

I proceeded to 7,9 and found #835 sitting in a trap. She fled upon arrival. At the base of the Madrone at this station were scavings of Red Pigment. This might be a second nest(?). There is a small pile of 15-20 pencil sized twigs assembled at the base.

0550h - #1014, station 5, 14 with ORANGE powder on ears, tail feet.

Finished RC-1 @ 0625h. Finished checking MC-1 at 0745hrs. There is a light, low level of cloud cover, forming fog on hill sides.

Spent the morning hiking up Madrone Canyon and the first canyon off of it. Good *P. californicus* habitat throughout, particularly after the fence (~.25 mi up from grid MC-1). There were a few trickles of water up higher in the canyon, about 1 mile from the grid. Returned to set 2 traplines up & down canyon from #MC-1. Each one starts ~25m from the grid boundary, extends up the south side, with 5 stations, 2 traps/station. I set these to see if there are any *P. californicus* adjacent to the grid, but not moving.

Reset traps a little earlier today to make it into town for movie night. Reset MC-1 from 1500 to 1600hrs. A fledgling Black-headed Grosbeak was found up in a buckeye ^{in the middle of the grid.} It was an awkward flyer and continuously called.

Reset traps on RC-1 from 1600 to 1700hrs. Set traps at station 9, 7 inside madrone ~~tree~~ trunk where #835 appears to be nesting. It has been quite cool today (low 80's) due to a thin cloud cover all day - very pleasant.

2300h - out checking traps on RC-1. It's partially overcast, mid 70's. Moon (1/2) barely visible through clouds. 2330 - recaptured #835 at 7,9.

She escaped around and uphill from the madrone.

June 6

0005hrs - finished RC-1. Not many animals; not that many closed traps

Hastings Natural History Reservation, Monterey Co., Calif.

June 6 (cont) 0600hrs - back on RC-1 checking trap. Calm, low 70's, few scattered thin clouds.

Finished RC-1 by 0730hrs.

Trapline west of MC-1 - no capture!

Trapline east of MC-1 - St. #5 (top of slope) - #775 *N. fuscipes*

#1

Now #1093. *P. californicus* 29g, ♂, Subadult, TND.

I finished checking traps around 0930. I dusted #1090 with orange to take pictures for ASM talk. Collected all traps and loaded them up. Disappointing results on this grid.

The afternoon has been warm (mid 80's) and windy. ~~For~~ Storm clouds were off to the east most of the day. 0400hrs - walked to grid #RC-1 to check out potential trapping sites. Due S from the road to Mark and Shorty's place has potential - need to check it out.

Reset traps on RC-1 from 1700 to 1800hrs. Found *M. californicus* ^{#0300} dead in trap at station. (Cat #767).

June 7 0550hrs - out on RC-1 to check traps. It's cool low 50's, calm, with clear skies. Finished checking traps at 0730hrs. Many (~25-35) traps closed with no animal. Packed up truck and headed back to Berkeley!

July 11 Arrived at Hastings around 1400h (Pacific Daylight-Savings Time). Will be here until the 23rd of July to monitor MC-1 & RC-1, set up a new grid, build an enclosure for behavioral observations, and measure distances for drift fences. It is clear, breezy (up to 10mph from west), and warm (upper 80's). Began setting traps on MC-1 and 1630hrs. Finished setting traps 1800hrs. Conditions are very dry! It looks like September conditions of last year - the buckeyes are brown, no green undergrowth at all.

RIBBLE,
D.O.
1987

JOURNAL

(13)

Hastings Natural History Reservation, Monterey Co., Calif

July 12

Started checking traps at 0550hrs this morning. It's clear, calm, low 60's. The moon is ^(the moon comes out sometime after 2400hrs) < full, but very bright in the western sky. It begins to get light around 0515, but not until 0545 is it light enough to work.

Finished checking traps at 0712hrs. Results similar (poor) to capture results in June. Summary of captures:

P. californicus - 1 capture

P. boylii - 6 captures (1 new)

P. truei - 2 captures

N. fuscipes - 1 capture (new animal)

Perognathus c. - 4 captures (2 new)

Total - 14 total captures (4 new animals)

Observed *S. griseus* at 5.14. It triggered one of the traps and was taking excess bait around the trap. Approached to within 10m.

I layed out traps east of MC-1 to set later in the day. (Trapline A-1, starts 20m east of grid, ~15-20m between stations, 2 traps per, runs along creek ^{bed} for 7 stations, then SE up first arroyo into Madrone (last 2 stations across fence off of Hastings). Traps # 161-180.

(Trapline A-2), starts $\approx \frac{250}{300}$ m east of MC-1 along creek-bed, ~15-20m between stations, 2 traps per, trap #'s 281-300, ends at Hastings boundary fence.

I spent most of the afternoon repairing an enclosure for behavioral observation. The boxes were here, ^{in the lower barn.} apparently from MUE. They will suffice for initial work (more on measurements of box, later).

Today was clear, breezy, and warm (upper 80's). 1730hrs - set out 10 traps at Big Creek 2nd crossing (eastern most crossing) for animals to use in behavioral work. 1800hrs - began resetting traps on MC-1, and transects A-1 & A-2.

Finished by 1710hrs.

1987

Hastings Natural History Reservation, Monterey Co., Calif.

July 13 0615h - out on MC-1 checking traps. Weather same as yesterday morning (temp = 60s)

Transect A-1 results:

Trap #

N 163 040 Perognathus.c. ♀, imp, nullip, 20g.N 164 02310 P. boylii ♀, parous, imp, 23g.N 165 0110 Perognathus ♂, early mature, 20g.N 168 0220 R. maculotis ♂, scrotal, 7g.N 170 0120 Perognathus ♂, scrotal, 25g.

N 173 0130 " " , TND, early mature, 19g.

N 174 0140 " ♀, imp, nullip, 19g.

N 179 02320 P. boylii ♂, TND (close), 24g.* N 180 ~~1096~~ P. californicus, ♂, Mature, TND - 39g

Transect A-2 results:

N 287 0210 Perognathus ♀, parous, pregnant, 30g

N 288 0220 " ♂, mature, scrotal, 30g.

N 290 0230 " ♀, sub, nulliparous, 17g

N 289 0240 " " " " 16g.

N 292 0310 " ♂ " TND, 19g

* N 291 1097 P. californicus, ♂, mature, TND, 40g. Escaped up N side of slope ^{white tail} tip

* N 295 1098 " " " " 40g. White tail tip.

No P. californicus caught at second crossing on Big Creek.

Finished checking traps at 0900hrs.

Summary of results on MC-1: P. californicus : 2 capturesP. boylii : 5 capturesP. truei : 4 capturesPerognathus : 2 capturesNeotoma : 2
13 captures

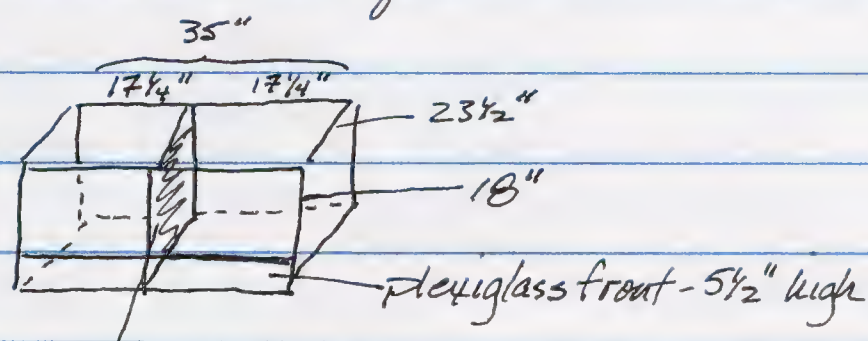
RIBBLE, D.D.
1987

Journal

1151

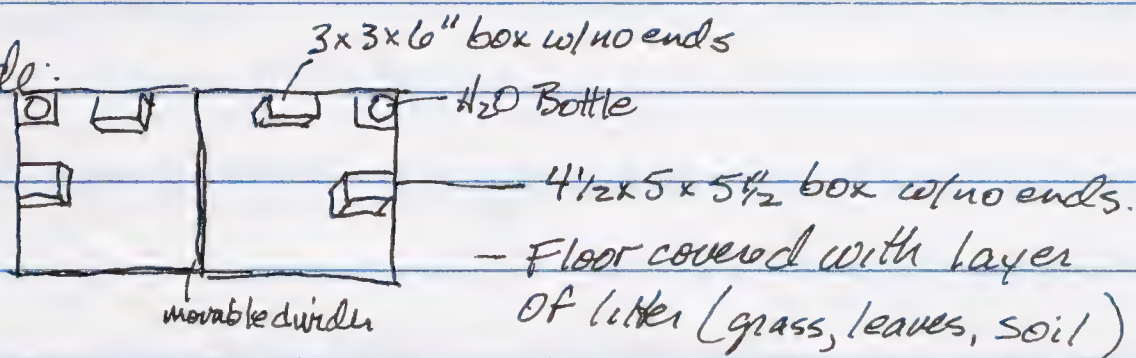
Hastings Natural History Reservation, Monterey Co., Calif.

July 13 (cont) This morning I set up the behavior box at the old homestead next to Mark & Shorty's place. The box is as follows.



removable divider w/ $\frac{1}{4}$ " mesh window at top ($4\frac{1}{4}$ " x $15\frac{1}{8}$ ")

inside each side:



The box is elevated 16" off porch level for observation purposes. The box is made of $\frac{3}{8}$ " plywood, except for plexiglass front and 2 $\frac{1}{4}$ " mesh hardware cloth screens at top ($13\frac{1}{2}$ " x $20\frac{1}{2}$ ")

The porch is at least 10-15°F cooler than out in the sun. I spent most of the afternoon picking up non-folding shermans from P. Kelly's marked Neotoma middens. Picked up total of 89.

1700hrs - reset traps at 2nd crossing and set 10 more at the 1st crossing. 1750 - began resetting traps on MC-1, traplines A-1 & A-2. Set Transect A-3. Starts ≈ 100 m from fork in Madrone Canyon & runs along NE facing slope. Set 2 traps/station, 10-15m spacing, trap # 321-340. This is actually off Hastings property on the Trega (?) ranch. Finished by 1930hrs

July 14. 0615hrs - on MC-1 checking traps. Weather conditions same as previous days. Moon is now $< \frac{3}{4}$ full.

RIBBLE, DO
1987

JOURNAL

(14)

Hastings Natural History Reservation, Monterey Co., Calif.

July 14 (cont) Transect A-1 Results:

- N 161 02330 P. boylii ♂, imm., TND, 12g.
163 775 N. fuscipes
166 0110 Perognathus ♂ RECAP.
172 02300 P. boylii ♂ RECAP (from grid)
N 171 02340 P. boylii ♂ mature, scrotal, 24.5g
177 02320 " " ♂ RECAP
180 1096 P. californicus RECAP. Escaped to stream bank

Transect A-2 Results

- N 287 0220 Perognathus RECAP
288 02400 P. boylii ♂, mature, TND, 23g
289 0240 Perognathus RECAP
292 1097 P. californicus RECAP
N 298 0320 Perognathus ♂, mature, TND, 25g.

Transect A-3 (note, I will only mark P. californicus)

- N 324 1100 P. californicus ♂, mature, TND, 41g.
325 — Neotoma fuscipes
335 — " "
N 337 1901 P. californicus, ♀, mature, imp, parous, 40g.
340 — P. boylii

0840 - Caught at St #3 @ 1st crossing (kept for behavioral work)

- N # 1902 P. californicus, ♂, M, TND (but close), 43g.

Summary of Results on MC-1: P. californicus: 2 captures

P. boylii: 3 captures

P. truei: 4 captures, 2 new immatures

Perognathus: 4 captures

N. fuscipes: 2 captures, 1 new

Total: 15 captures

Spent the rest of the morning sorting non-folding Shermans in the barn. In the afternoon, went to Anroy Seca for a swim... Reset all traps from 1800 to 2000 hrs. Today seemed hotter (mid 90s) than the previous days, and there was very little breeze.

RIBBLE, D.O.
1987

JOURNAL

(17)

Hastings Natural History Reservation, Monterey Co., Calif.

July 15

Dash-out on MC-1 checking traps. Weather same as previous. Moon just > half full.

Transect A-1 Results:

163	775	<i>N. fuscipes</i>	RECAP
166	0110	<i>Perognathus</i>	"
169	02310	<i>P. boylii</i>	"
171	02340	<i>P. boylii</i>	"
172	02300	"	"
173	0140	<i>Perognathus</i>	"
180	02320	<i>P. boylii</i>	"

Transect A-2 Results:

N	284	02410	<i>P. boylii</i>	♀, mature, imp, nullip(?), 20g
N	283	02420	"	♂, mature, serotal, 20.5g
	287	0220	<i>Perognathus</i>	RECAP
	289	0240	"	"
	292	1097	<i>P. californicus</i>	RECAP
	297	1098	"	"
#	182	1905	<i>P. californicus</i>	♀, mature, imp, nullip, 39.5g

Transect A-3 Results:

N	323	190 ³	<i>P. californicus</i>	♀, mature, imp., nullip., 39.5g. KEPT FOR BEHAVIOR TRIALS
	324	-	<i>N. fuscipes</i>	
	335	-	<i>P. boylii</i>	
	337	-	<i>N. fuscipes</i>	
N	338	1904	<i>P. californicus</i>	♂, mature, TND, 37g
	340	-	<i>P. boylii</i>	

Traps at 2nd Crossing

N St. 5 1905. *P. californicus* ♂, mature, TND, 39g. Kept for Behavioral trials

Summary of Results on MC-1: *P. californicus* - 2 captures

P. boylii - 3 captures

P. fuscipes - 7 captures (1 new immature)

N. fuscipes - 2 captures

Perognathus - 1 capture

15 total captures

1018 hrs. I took the *P. californicus* over to mark & shorty's. I placed #1902 in the right half. Placed #1903 ♀ in the left half, after clipping a ~15x5mm patch of fur from her left & right sides just anterior to her ^{rear} legs. Put #1905 in plastic holding cage

Hastings Natural History Reservation, Monterey Co., Calif.

July 15 (cont) After about 1 min, #1902 jumped up to the screen separating the 2 halves and explored around for 3 min, then retreated to the small wooden box. ~~#1905~~ #1903 (♀) stayed huddled in the corner under the H₂O bottle. Provided both sides w/ 1/2 tuna can of "COB" (corn, oats, barley, from P. Kelly) and 4 1/4 sheets newspaper. In the afternoon I ^{picked up traps at crossings} and set the non-folding Shermans on MC-1 (~~16~~ 162) and on TC-1 (86). 16 extra traps are at MC-1 for use on new stations. Began to expand MC-1, only added stations 7, ¹⁵ 7, 16; 8, 15. Reset all traps from 1745 to 1945 hrs. 2000 hrs - observing animals in captivity. I turned the red light on & watched for 10 mins - neither animal moved. Removed the boxes from 1902 (♂) enclosure, and he roamed around some, but stayed principally on the feed can. He seemed to avoid the 1 liter. Watched him for 15 min. Tried to arouse the ♀ (1903) but she stood still in the corner. Left by 2045 h. The night is moonless, clear, calm.

July 16 0615h - on MC-1 checking traps. It is a bit cooler this morning (mid 50's) than previous; clear skies and calm.

Transect A-1 Results.

161	02310	<u>P. baylii</u>	RECAP
162	040	<u>Perognathus</u>	"
166	0110	"	"
170	02300	<u>P. baylii</u>	RECAP
172	02340	"	"
174	02320	"	"
173	0140	<u>Perognathus</u>	"
177	1096	<u>P. californicus</u>	"

Transect A-2 Results:

N	282	1907	<u>N. fuscipes</u>	♂, mature, TWD
N	284	02430	<u>P. baylii</u>	♀, mature, imp, parous, 20g.
N	286	0330	<u>Perognathus</u>	♀, " , " , " , 21g.
	287	0220	<u>Perognathus</u>	RECAP
	290	0210	"	"
	289	0240	"	"
	292	0310	"	"
N	294	0230	<u>R. megalotis</u>	♂, mature, TWD. 8.5g.
	298	0320	<u>Perognathus</u>	RECAP
	297	1097	<u>P. californicus</u>	"

ZIBBLE, D.O.
1987

JOURNAL

(19)

Hastings Natural History Reservation, Monterey Co., Calif.

July
~~June~~ 16 (cont)

Transect A-3 Results:

N 322 1908 P. californicus ♂, mature, TND. 39g.
324 1180 " " RECAP
325 - N. fuscipes
335 - P. boylii
339 1904. P. californicus RECAP.

Summary of results on MC-1: P. californicus 2 captures (1 new)

P. boylii : 2 captures

P. truei : 6 captures

N. fuscipes : 1 capture

Perognathus : 3 captures

Total : 14 captures (1 new)

Manos Salvioni arrived this afternoon to help for a week.

In the afternoon we began by adding 16 stations to MC-1 (east)

as follows: 10, 18 10, 17 10, 16 ~~10, 15~~ 10, 15 | 10, 14

9 " 9 " 9 " 9 " | 9, 14 existing grid

8 " 8 " 8 " 8 " | 8, 14

7 " 7 " 7 " 7 " | 7, 14 stream

Below this area (here) is dry grassland, | 6, 14

but there is suitable habitat above | 5, 14

(to the south) of row 10.

We measured the distance necessary for a drift fence. To the east it is 60m from the north side of the creek to just past the fence of Hastings border. 80-90m of drift fence material should suffice. This ~~border~~ fence would be 60m from the edge of the grid (column 10, 18 - 7, 18). These measures were done with a meter tape & are somewhat ($\pm 5m$) accurate.

The west side drift fences should be 60m long (60m of material would be plenty), and it is 72m from the west side of the grid. We reset all traps from 1800 to 1930 hrs. Today was much cooler (low 80's) than previous days, hazy to west. In PM, we conducted behavioral trials. See P. californicus spp. acct.

P. B. B. L. E. D. O.
1987

JOURNAL

(20)

Hastings Natural History Reservation, Monterey Co., Calif.

July 17 The fog/low clouds moved in over the night and it is quite cool (low 50's) this morning - Skies are overcast. Began checking traps 0615hrs.

Transect A1 - Results

	162	02310	<u>P. boylii</u>	RECAP
	161	02330	<u>P. boylii</u>	"
	164	0775	<u>N. fuscipes</u>	RECAP
	166	02310	<u>P. boylii</u>	"
N	173	02340	"	♂ mat / scrotal / 24 gr
	175	02320	"	RECAP

Transect A-2 Results

N	282	01910	<u>N. fuscipes</u>	♀ parous imp mature
	286	0330	<u>Perognathus</u>	RECAP
	287	0220	"	"
N	288	02400	<u>P. boylii</u>	♀ mature, perprote, parous 23 gr
	289	0240	<u>Perognathus</u>	RECAP
	291	0310	"	"
	295	1097	<u>P. californicus</u>	"

Transect A-3 Results

	325	—	<u>Neotoma fuscipes</u>	RECAP
	330	1100	<u>P. californicus</u>	RECAP
	329	1908	"	"
	335	1904	"	"
	339	—	<u>P. boylii</u>	

Summary of Results on MC-1: P. californicus : 2 captures
P. boylii : 2 captures
P. truei : 8 captures (1 new)
N. fuscipes : 3 captures (1 new)
Perognathus : 3 captures

total 18 captures.

(folding Shermans)
All traps were picked up as we checked traps. It is still mostly cloudy with some clear patches (0900h). We went into town this morning for misc. supplies. 1400hrs - Marco & I began resetting traps on ~~MC~~ MC-1. We only had to use 10 folding Shermans at the 5 stations on south slope. Next, we set out transect RC-2 on the south side of Robertson Creek due S. from the road to Mark's Shorty's. I set traps to the

RIBBLE, D.O.
1987

Journal

(21)

Hastings Reservation, Monterey Co., Calif.

July 17 (cont) east (2 traps/station; #'s 281-230), and Marcos set his trapline to the west (2 traps/station, # 221-240). We finished this by 1545, at which time it started to sprinkle rain lightly (temp: mid 60's).

2115-out on RC-1 checking traps. It's overcast, mid ~~50's~~^{60's}, with a slight drizzle occasionally. We finished checking traps by 21⁰⁰h. -Only 3 animals, not much activity this early! At station 5, 12, a *Stellaria* lay was found dead with its head stuck in trap door. I returned it to the lab freezer.

July 18 0625h - checking traps on RC-1. It's cool (upper 50's), overcast but quickly burning off, and calm.

TRANSECT RC2

N	299/010	<i>P. boylii</i>	22 gr	♀ mature, lactating, tail cut
	300	020 <i>P. boylii</i>	26 gr	♂ mature, scrotal
	294	—		<i>Neotoma</i>
	287	—		"
	283	1913	<i>P. californicus</i>	41 gr ♂ mature TND
	281	010	<i>Perognathus</i>	23 gr ♂ mature TND
	323	—		<i>Neotoma</i>
	324	030	<i>P. boylii</i>	25 gr. ♂ mature, scrotal
	326	040	"	18 gr ♂ ad, TND
	327	—	<i>Perognathus</i>	— ♂ mature TND release torpid, didn't mark
N	329	010	<i>P. californicus</i>	36 gr ♂, mature TND

Summary of Captures on RC-1: *P. californicus* : 5 captures (1 new)

P. boylii : 4 captures (1 new)

N. fuscipes : 3 captures

E. megalotis : 1 capture

Perognathus : 2 captures (1 new)

S. townsendi : 1 capture (Mortality)

Total: 16 captures

We finished by 0845 hr. It's clear, calm, and warming up.

Hastings Natural History Reservation, Monterey Co., Calif.

July 18 (cont) We closed all traps as we checked them. Spent the ^{afternoon at} ~~PM~~ at Pt. Lobos - - -

Reset all traps between 1830 and 1930 hrs. Today was clear, calm, low 80's

2235 hrs - out checking traps on PC-1. It's clear, no moon, calm, mid 70's

Finished checking PC-1 at 2330 hrs

July 19 0620 hrs - on PC-1 checking traps. It's clear, calm, cool (low 50's) - Moon $\approx \frac{1}{4}$ full

TRANSECT R-2 RESULTS:

N	300	-	<u>Neotoma</u>	-
	299	0100	<u>P. boylii</u>	21g ♀ mature, parous, imp
	298	020	<u>Perognathus</u>	25 gr. ♂ mature TND
	287	-	<u>Neotoma</u>	-
	285	-	"	-
N	286	030	<u>Perognathus</u>	29 gr. ♂ mature TND
	282	010	"	<u>Trop. mortality</u> / <u>Cat No. 773</u>
	322	-	<u>Neotoma</u>	-
	324	-	"	-
	326	-	"	-
	325	040	<u>P. boylii</u>	-
N	328	0110	"	19g ♀ sad, imp. nulli
N	327	0120	"	24 ♀ mature, imp parous
	332	-	<u>Neotoma</u>	-
	337	-	"	-
	339	-	"	-

Finished checking all traps by 0830 hrs.

Summary of Results on PC-1: P. californicus: 9 captures (2 new)

P. boylii: 5 captures

N. fuscipes: 5 captures

R. megalotis: 2 captures (2 new)

Perognathus: 2 "

P. maniculatus: 1 capture

S. townbridgei: 1 capture (mortality)

Total: 25 captures

Today was pleasant (low 80's) with scattered clouds. Spent most of the afternoon preparing specimens. Reset all traps from 1900 to 1945 hrs. Marco flushed 4 Sus scrofa at the ~~Red~~ water north of transect PC-2

RIBBLE, D.O.
1987

Journal

(23)

Hastings Natural History Reservation, Monterey Co., Calif.

July 19 (cont) 2250hrs - out checking traps on RC-1. Clear, no moon, cool (low 50's)

Finished checking traps by 2350hrs. We could hear more activity of rodents than previous

July 20 0620hrs - checking traps on RC-1. Scattered high clouds, cool (low 50's), and calm

TRANSECT R-2 Results

	300	-	<u>N. fuscipes</u>		
N	299	0130	<u>P. boylii</u> ♂, mature, TND.	26g.	
	297	020	<u>Perognathus</u> RECAP		
	297	-	<u>N. fuscipes</u>		
	296	-	" "		
	283	030	<u>Perognathus</u>		
N	284	1918	<u>P. californicus</u> ♀, Pregnant	52g.	
N	282	0140	<u>P. boylii</u> ♂, mature, TND	25g.	
	321	-	<u>N. fuscipes</u>		
	322	1913	<u>P. californicus</u> RECAP.		
	326	-	<u>N. fuscipes</u>		
	325	040	<u>P. boylii</u> RECAP.	18g	
	327	0110	<u>P. boylii</u> "		
	328	0120	" "		
	331	-	<u>N. fuscipes</u>		
N	335	0200	<u>P. boylii</u> ♂, mature, TND.	18g	
	337	-	<u>N. fuscipes</u>		
	338	-	" "		
	340	-	" "		

We picked up all of these traps today.

We saw a L. rufus in the green grass, s.w. of Robertson Creek, n. of transect RC-2. It ran off to the west. Marcos S. left for Berkeley this am.

Summary of Results on RC-1:

<u>P. californicus</u>	: 9 captures (1 new)
<u>P. boylii</u>	: 8 captures (3 new)
<u>N. fuscipes</u>	: 4 captures
<u>Perognathus</u>	: 3 captures (1 new)
<u>P. maniculatus</u>	: 1 "
<u>S. harrisi</u>	: 1 " (mortality)

Total = 26 captures

Today was mostly clear, slight breeze (up to 10 mph), and cool (lo 80's)

Set traps on RC-1 from 1730 to 1800hrs. From 1800 to 1830 I set traps on (Transect ~~III~~ VIII) on Robertson Creek just above confluence with Finch Creek (same location and name as area trapped in June-July 86).

Set 20 traps (#281-300), 2 traps/station, ~10-20 m between stations.

Hastings Natural History Reservation, Monterey Co., Calif.

July 20 (cont) 2300hrs - out on RC-1 checking traps. It's overcast, calm, low 60's.

July 21 0000hrs - finished checking traps on RC-1. Skies are clear, now. Not many captures this occasion. 10-15 traps closed with no animal.

Spotted 2 N. fuscipes on their(?) house at station 8,13; couldn't see if they were tagged.

0410h - back on RC-1 to check traps. It's clear, calm, cool (mid 50's)

The moon (< 1/4 full) is rising in the eastern sky, at 10 o'clock in sky.

0500h - redusted # 835 ♀ w/ GREEN @ 7,9. She escaped to the east; disappeared under the fallen tree by station 7,10. I think I saw a new

green trail by station 6,11 that went across the stream. I did find

some green powder on the south side of the stream by station 6,10.

Finished checking traps at 0535hrs. It begins to get light at 0515, so this was close timing for the darkness. A few low clouds have moved in since it started getting light.

RESULTS FROM TRANSECT VIII:

	282	-	<u>N. fuscipes</u>		
	283	-	" "		
N	291	1921	<u>P. californicus</u>	♀, early mature, imp., nullip.	36g.
N	292	1922	" "	♂, subadult, TND.	30g. (Watched it cross stream by jumping across rocks).
N	296	010	<u>P. boylii</u>	♀, lactating, parous.	26g.
	298	-	<u>N. fuscipes</u>		
	297	-	<u>Perognathus</u>	slightly torpid, released untagged.	♂, mature.
N	299	020	<u>P. boylii</u>	♂, mature, scrotal.	25g.
N	300	030	" "	♀, " , imp., parous.	24g.

Summary of CAPTURE RESULTS on RC-1 (morning):		<u>P. californicus</u>	7 captures (2 new)
		<u>P. boylii</u>	6 "
		<u>N. fuscipes</u>	1 "
		<u>P. maniculatus</u>	1 "
		<u>Perognathus</u>	5 "
		TOTAL	20 captures

This afternoon it was cool (60's), breezy, and partly cloudy. Large cumulus clouds moved in from the west, but cleared around 1800hrs.

Hastings Natural History Reservation, Monterey Co., Calif.

July 21(cont) Reset traps on RC-1 from 1730 to 1815hrs. Set out an additional 6 National traps at various places for N. fuscipes. Mistakenly left traps open at 4,10 and caught #1084. Released him in good shape. Finished resetting Transect VIII by 1840hrs.

July 22 0210hrs - out checking traps on RC-1. It's clear, calm, ~~still~~ (10 50's). No moon yet - Finished checking traps on RC-1 at 0400.

TRANSECT VIII RESULTS

282 - N. fuscipes

284 - " "

286 010 Perognathus ♂, sub, TND. 21g

287 - N. fuscipes

291 1921 P. californicus RECAP

292 1922 " " "

28 N 294 1925 " " ♂, sub, TND. 28g. Whitetail tip

295 010 P. boylii RECAP

296 020 " " "

298 - N. fuscipes

N 297 040 P. boylii ♂, mature, scrotal. 26g.

299 - N. fuscipes

300 030 P. boylii RECAP

Finished checking Transect at 0435hrs. It feels cooler than when I started. While I was checking traps the Carmel Sheriff stopped and I had to ^{convince} ~~justify~~ him I wasn't poaching. I saw a S. bachmani near station 5,13 - this might be closing some traps.

SUMMARY OF RESULTS ON RC-1: P. californicus : 11 captures (0 new)
P. boylii : 9 captures (1 new)
N. fuscipes : 10 " (2 new)
Perognathus : 4 "
P. maniculatus : 1 capture
S. townsendi : 3 captures (1 new, 2 dead)

TOTAL : 38 captures.

1200hrs - set 2 gopher live-traps in Pearson field by the creek crossings. I'm attempting to collect a gopher for B. Rainey. This afternoon was mostly clear, breezy (up to 15 mph), and warm (to 80's). Cleaned out ~~area~~ behavioral arena this afternoon and relaxed



RIBBLE, D.D.
1987

JOURNAL

26

Hastings Natural History Reservation, Monterey Co., Calif.

July 22(cont) then and the creek crossings (see spp. acct). Reset all traps from 1730 to 1845 hrs. I checked the gopher live-traps at 2130h; both were sprung but only the one at the far west end of the field had an animal. Returned it to the lab; prepared it (tissues to B. Rainey)

July 23 0620hrs - checking traps on MC-1. It's clear, calm, and cool (1080's)

Transect VIII Results:

300 - N. fuscipes
298 040 P. boylii RECAP
297 020 " " "
296 010 " " "
294 1925 P. californicus RECAP
293 - N. fuscipes - TRAP MORTALITY [Cat # 780]
292 1921 P. californicus RECAP
291 1922 " " "
290 - M. californicus - new animal, didn't mark.
282 - N. fuscipes
281 - P. boylii, ♂, mature, scrotal, (new, didn't mark)

Summary of Capture Results on MC-1:	<u>P. californicus</u>	10 captures (1 new)
	<u>P. boylii</u>	11 captures (2 new)
	<u>N. fuscipes</u>	7 captures (1 new)
	<u>Perognathus</u>	2 "
	<u>P. maniculatus</u>	2 "
	<u>S. townsendi</u>	1 " (mortality)
	<u>D. virginiana</u>	1 "
	TOTAL	34 captures.

I kept the Didelphis and chloroformed it back at the lab (No catalogue #, since I'll give it to Dr. Scott Dye). Prepared the 2 mortalities as full skeletons. Packed up, and headed back to Berkeley by 1230hrs.

1987

Hastings Natural History Reservation, Monterey Co., Calif.

Aug 5. Arrived at Hastings around 1900hrs and immediately began setting traps on RC-1. It's clear, calm, and warm (80's). Found 2 dead *P. californicus* (^{cat #701} #1911 & ^{1919 - cat #702} ~~1912~~) in traps at 2 different stations. I don't think they were left in traps, or that the traps were left open. I think they forced their way into the traps. Whatever, I should leave the traps open at the closed end or apart when don't trapping. We finished setting traps by 2000hrs (M. Salvioni showed up 15 min after I started setting traps)

2300hrs - out checking traps on RC-1. It's clear, warm (70's). The moon is $\frac{1}{2}$ full and in the southern horizon, (not visible from Grid)

2345hrs - Caught #835, ♀, lactating, and Marcos put a radio-collar on her. Dusted the collar with green powder.

Aug 6. Finished checking traps by 0015hrs

0610 - clear, calm, 60's. Backing checking traps on RC-1. It's just light enough to see.

Summary of Results this AM: *P. californicus* : 4 captures

P. boylii : 9 "

N. fuscipes : 3 "

Perognathus : 3 "

S. townsendi : 1 "

Total 20 captures

We radio-tracked ♀ #835 and found her ^{at her} nest at the base of the Madrone at station 9, 7! See species acct.

From 1500 to 1830hrs, Marco & I set out 14 new stations on Grid RC-1 (stations 9, 18 - 4, 18; 4, 18 - 4, 12; 6, 8, & 5, 8).

We had to do a lot of trail cutting, so things were slow. Today was warm (upper 80's), clear, with a slight breeze. We reset traps from 1830 to 1915hrs - all ^{new} stations set

RIBBEE, D.O.
1987

Journal

28

Hastings Natural History Reservation, Monterey Co., Calif.

Aug 6 (cont) 2230hrs - checking traps on RC-1. Clear, calm, ^{upper 70's} 70-80's.

Aug 7 We finished checking traps at 0020hrs. #835 ♀ remained on her nest & there was very little activity. We took our time and even stopped for ~30min hoping the activity would pick-up, but nothing improved.

0605 - checking traps on RC-1. Clear, calm, high 60's, fog in lower valleys

0712 - radio-collared #1928 ♀ at station 7, 15. Dusted collar with red

She escaped N, NE of the station. We finished checking traps by 0740hrs.

Summary of Capture Results: P. californicus : 8 captures : 1 new
This morning P. boylii : 10 "
Neotoma fuscipes : 2 "
Perognathus : 7 " (2 new)
S. townsendi : 1 "

28 total captures.

* 1230hrs - Marco radio-tracked #1928 to a willow ~3m southwest of station 5, 14. When we poked around at the willow she escaped up through the hollow part of the trunk and stopped ~ 3m up in the willow. The willow is ~4.5m high, ~150mm dbh. She seemed to have no problem climbing the tree with the radio-collar. After 5min, we backed off and she went back down. I flagged the tree with a marker. We also spent over an hour trying to get to #835 (see spp. acct.)

Marco & I spent the afternoon hashing out some details for the drift fence on GRAD MC-1. ^{and we added 4 stations to the grid (11, 15 - 11, 18).}

We reset traps on RC-1 from 1700 to 1730hrs

Today was clear & cooler (low 80's). Marco left for Berkeley

2340hrs - out checking traps on RC-1. It's cool (low 70's), calm, moon is > 3/4 full (bright!)

Aug 8 0030hrs - removed radio-collar from 1928 and dusted her RED Powder. Finished checking traps by 0055hrs.

Hastings Reservation, Monterey Co., Calif.

Aug 8 (cont)

0618 hrs - checking traps on RC-1. It's foggy, calm, and cool (Low 70's)
Didn't catch #835 in a trap this morning, but I did get her radio signal in the same meadow. Finished checking traps at 0740 hrs. It is clear with scattered fog lower in the valley.

Summary of capture results (am): P. californicus: 6 captures

P. boylii : 11 captures

N. fuscipes : 4 "

Perognathus : 5 "

Total : 26 captures.

I returned to the grid to try & find #835's young, but she wasn't at the 2nd nest or the original nest. The strongest radio-signal came from the 2nd nest hole, so perhaps she is still further up where she escaped yesterday. A small clump (1/3 cup volume) of nest material had been pushed out.

In the afternoon I cut a transect for a drift fence east of grid RC-1. It passes by station A-5. 40m of fencing would be minimal needed, 55 good, and 75m would cover all possible habitat. Reset all traps on RC-1 from 1730 to 1830 hrs.

Aug 9

0215 hrs - out checking traps on RC-1. It's cool (70's), some fog forming. Moon is overhead & Full. Redusted #1928 ♀ at station 5, 14 with Red Powder. Finished checking traps by 0350 hrs. The fog has obscured the moon, now.

Summary of Results for this morning: P. californicus: 7 captures (1 new)

P. boylii : 13 "

N. fuscipes : 2 "

Perognathus : 5 captures (1 new)

Total 27 captures

I left 2 traps set inside the hollow at #835 nest site. Her radio signal was still coming from the 2nd nest area. I'll return in daylight to check these.

1987

Hastings Reservation, Monterey Co., Calif.

Aug 9
(Cont)

Returned to #835 nest at 0930hrs. Caught ~~at 1920~~¹⁰²⁰ ♂ at site. Still getting signal from 2nd nest site. I placed some rolled oats in the 2nd nest site ^{last night} and they were gone this morning; so at least she is still alive(?). I'm concerned her collar might get stuck in the tight passageways
I spent the afternoon at Tassajara - nice. I reset traps from 1730 to 1630hrs.

2300hrs - out checking traps on RC-1.

Aug 10. Finished checking traps at 0010hrs. Note that #835 was caught w/out radio-collar.

0650 - back checking traps on RC-1. Calm, cool (110 F's), foggy.

Caught ♂ #1420 at 6, 11 with green powder visible on ears & flanks.

0900 - caught #835 & young (3)!!

# 11	12.4g.	127-65-23-14mm	♂	- Eandipped	} eyes open, lids 1/2 open erupted, moderately mobile
# 12	12.7g	132-66-23-14	♀		
# 13	11.9	129 62-22-12	♂	White-tail tip	

(See species account) ~~for~~

I packed up things and headed for Berkeley today to pick-up drift fence materials

Aug 11 Arrived back at Hastings around 1330h. M. Salvioni followed shortly, as did Eric Schneider (new grad student). We spent most of the afternoon cleaning up the Hastings Cabin - Katy left a lot of food, game, etc in the kitchen & frig. We got all of the tools together from Suzanne for the drift fence and carried it to the grid. We reset traps from 1800 to 1830hrs. It takes an additional 56 holding Shermans to complete the grid. The buckeyes leaves are all brown & withered - Extremely dry!!

$$3 + 40$$

$$4 + 10$$

$$5 + 50$$

PIBBLE, D.O.
1987

JOURNAL

31

Hastings Natural History Reservation, Monterey Co., Calif.

Aug 12 0700 - C. Schneider & I are checking traps while Marco begins working on the drift fence. It's cool (60's) and thick fog this morning.

Summary of Results: P. californicus: 1 capture
P. boylii: 5 "
P. truei: 5 "
Perognathus: 6 " (3 new)
Neotoma: 2 "
Total: 19 captures.

We spent the rest of the day working hard (!) on the drift fence. We finished the fence east of MC-1; it took ~~240~~¹⁹⁰ feet of drift fence material (actual distance is less due to overlap, etc.). It doesn't look as "sharp" as I had imagined, but will certainly suffice. We also cleared the path for the fence to the west and put up ~ 70 ft of fence before setting traps between 1830 and 1900 hrs.

Aug 13 0700 - checking traps on MC-1. Weather same as yesterday morning. Summary of Results: P. boylii - 10 captures (2 new)
P. truei - 5 captures
Perognathus - 7 "
N. fuscipes - 6 " (2 new)
28 captures

By 1200 we finished the drift fence west of MC-1. It took ~ 210 feet of material. Chris Schneider took off for Berkeley after lunch. In the afternoon Marco & I finished off the fence west of MC-1. We reset traps around 1500 hrs. We spent the remaining afternoon clearing the vegetation for the drift fence east of RC-1. Bill Lidicker arrived around 2000 hrs.

Aug 14 0700 - not as foggy this morning, but skies overcast. Summary of Results: P. californicus: 2 captures.
P. boylii: 6 "
P. truei: 6 "
Perognathus: 8 "
Neotoma: 4 "
TOTAL: 26 captures

22

1885

RIBBLE, D.O.
1987

JOURNAL

32

Hastings Reservation, Monterey Co., Calif.

Aug¹⁴
(Cont)

We spent the morning on the fence east of RC-1, finishing it by lunch. In the afternoon we used up the remaining fence material on the fence west of RC-1. I need at least 50 more feet, and preferably 80 feet. We did not have time to put hardware cloth at the stream on this grid. These things will have to be finished when I return in late September.

1830hrs - set out 20 traps at the 1st & 2nd crossings (attempting to catch P. californicus for tissues). Reset traps on GRID MC-1 from 1900 to 1930hrs.

Aug¹⁵. 0730 - cool, overcast this morning.

Summary of Results:

<u>P. californicus</u>	: 2 captures
<u>P. boylii</u>	: 9 captures (1 new)
<u>P. truei</u>	: 7 "
<u>Perognathus</u>	: 7 "
<u>Sorex t.</u>	: 1 "
<u>N. fuscipes</u>	: 5 captures (1 new)
TOTAL	: 31 captures.

At the 1st & 2nd crossing trapline we caught #1902 ♂ P. californicus (animal previously used in behavior - powder trials). Took this back to Berkeley. Packed up everything & headed back to Berkeley by 1430hrs.

Sept 29 Finally back to Hastings after getting married and honeymooning in Peru. Wonderful trip and a nice break! Arrived around 1400hrs. Clear, slight breeze and hot (mid-90's!). Everything looks dry. The oaks have dropped a good acorn crop and some Acorn woodpeckers (M. Stanback) and Neotoma (P. Kelly) are breeding. Spent the afternoon & evening cleaning up the cabin. No traps set tonight.

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1987

JOURNAL

33

Hastings Natural History Reservation, Monterey Co., Calif.

Sept. 30 Spent the morning cleaning up the cabin. 1400hrs - out setting traps on GIZIO MC-1. It's bone dry up in the canyon, the buckeyes have lost their leaves (due to heat), poison oak leaves have mostly turned & dropped, some valley oak leaves are dropping, and acorns are fairly abundant on the ground and in the litter. I numbered the drift fence on the west side # W-1 through W-14, with the odd no's above the holes in the fence and the even no's between holes. Thus, 5m between numbers (or stations). I set out traps only in the holes, 14 traps total. I pulled non-folding Shermans off the grid for these. On the east-side fence, I numbered stations E-1 through E-12, exactly like the west-side fence, and put non-folding Shermans in the holes. Finished setting traps on the rest of the grid by 1830hrs (PST, daylight savings). Total of 93 trap stations set (80 on grid, 13 on drift fences), and ~~used~~ totalling 186 traps. Used 84 folding Shermans, and 102 non-folding. Today was hot (mid-90's), mostly clear, and slightly breezy. The face flies are terrible! The sun sets around 1900hrs and it is dark by 1945hrs.

Oct. 1 0730h - checking traps on MC-1. It's calm, clear, 70's. Got up a little late this morning - should be out by 0700hrs. Finished checking all traps by 0930h. Face-flies were so bad I opted for taking all P. californicus back to lab to collect samples. Note that the first animal (P. boylii #02010) was released on wrong side of fence. I closed all traps on drift fence, but left most of traps on grid open.

Hastings Natural History Reservation, Monterey Co., Calif

Oct. 1 (cont). Summary of trap results (including drift fence):

<u>P. californicus</u>	:	4 captures	(3 new)
<u>P. boylii</u>	:	2 captures	
<u>P. truei</u>	:	3 "	(1 new)
<u>Perognathus</u>	:	7 "	(1 new)
<u>Neotoma</u>	:	2 "	

Total: 18 captures.

Finished processing tissues around 1200hrs; released the 4 animals at their point of capture.

In the afternoon I filled in the gap between the fence and Robertson Creek on the west drift fence. I ~~numbered~~ numbered what is finished and estimate this fence will go up to W-11. I numbered the east fence E-1 through E-10. I then transferred 10 non-folding Shermans from Grid RC-1 to the east fence and 14 to the west fence (2 extra to be placed at W-4 on south side of creek).

Found the missing radio-collar on ground in front of nest. Looks like nest hole was cleaned out by something(?).

Grid RC-1
info

The grid will require ²5 ⁴ folding Sherman traps to complete it. Total of 58 stations (6 ² non-folding; 5 ⁴ folding) on Grid, 71 stations including the drift fence. Returned to MC-1 and reset all traps from 1730 to 1630hrs. Today was a bit cooler (upper 80's)

Oct. 2 0715-out checking traps. Clear, calm, cooler than yesterday. Finished checking traps by 0900hrs. Note that on the drift fences ²3 animals were caught which went around the end of the fence (P. truei # 0440, Perognathus # 0220) and another which obviously went on the other side (P. boylii # 03020). Also, ³3 animals were recaptured (P. californicus # 1940, P. boylii # 02010 - which made it around the fence). Summary of morning results across grid & fences:

<u>P. californicus</u>	:	3 captures	(1 new)
<u>P. boylii</u>	:	5 captures	(2 new)
<u>P. truei</u>	:	2 captures	(1 new)
<u>Perognathus</u>	:	8 "	(3 new)
<u>Neotoma</u>	:	4 "	(1 new)
<u>S. townsendi</u>	:	1 "	(1 new)

TOTAL 23 captures

RIBBLE, D.O.
1987

JOURNAL

35

Hastings Natural History Reservation, Monterey Co., Calif

Oct 2 (cont) Returned to lab to process tissues of #1943. I had a hard time with this one - while it was recovering blood dried over its eyes binding its eyelids. I was able to get the lids apart and kept her in a holding cage all afternoon to keep an eye on it. In the afternoon M. Stanback helped me finish up the drift fence west of RC-1. We used ~60 ft. more flashing. The stations ended at W-10 (not W-11 as estimated). After putting finishing touches on the fence by myself, I set the ~~the~~ traps on both west & east drift fences of RC-1 between 1530 and 1630. At 1700 hrs I released #1943 at station 11, 10 on MC-1, and proceeded to reset all traps on MC-1. Finished 1800 hrs. Weather today was as yesterday: warm (hi 80's), clear.

Oct 3 0700 hrs - out checking traps on MC-1. Clear and calm. Finished checking traps on MC-1 at 0830 hrs. Finished checking RC-1 drift fences at 0930. Returned to lab to stuff Sorex & collect tissues from #1015.

Summary of trap results on MC-1:

<u>P. californicus</u>	: 1 capture
<u>P. boylii</u>	: 5 captures (1 new)
<u>P. truei</u>	: 3 captures
<u>Perognathus</u>	: 10 captures (1 new)
<u>Neotoma</u>	: 4 captures
<u>E. megalotis</u>	: 1 new animal
Total	: 23 captures

Summary of results on RC-1 drift lines:

<u>P. californicus</u>	: 2 captures
<u>P. boylii</u>	: 1 " (1 new)
<u>Perognathus</u>	: 3 " (2 new)
<u>E. megalotis</u>	: 1 new capture
<u>S. flaviventris</u>	: 1 trap mortality
TOTAL	: 8 captures.

Spent the afternoon working in the cabin.

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RIBBLE, D.O.
1987

JOURNAL

36

Hastings Natural History Reservation, Monterey Co., Calif.

Oct. 3 (cont). 11:30 hrs -- released #1943 on the drift fence east of RC-1 and reset all traps. Reset all traps on MC-1 from 17:15 to 18:15 hrs. Today was a scorcher! Shorty heard from a ^{local} ranch it was 110°!

22

~~11~~ 30 hrs - out to check the west drift fence on RC-1 for #835. The moon is 3/4 full (increasing) and overhead. It is still quite warm (low 90's). Caught #835 at W-9 and dusted her with green powder. I waited 5 min and then followed her trail to the NE for ~15 m to a fallen oak tree that is 1.5 m off the ground. Could not find her trail after that. Next time I should dust & release her at this spot. Finished by 23:00 hrs & returned home.

Oct 4 07:10 - out checking traps on MC-1. Looks like another hot one today. Closed all traps on the grid.

Finished checking traps on RC-1 drift fences at 09:10. There is a Scapanus at station E-7 which covers up the traps with dirt each evening.

I'll have to take care of this. Note that I redusted #835 and released her when I lost her trail last night. Before returning to process animals, etc., I put folding Sermans on grid RC-1 to be set this afternoon. Summary of results

on MC-1: P. californicus : 1 capture

P. boylii : 5 captures (2 new)

P. truei : 2 captures (1 new)

Perognathus : 7 captures

Neotoma : 2 "

} Lowest total of 4 days, perhaps due to heat

17 total CAPTURES

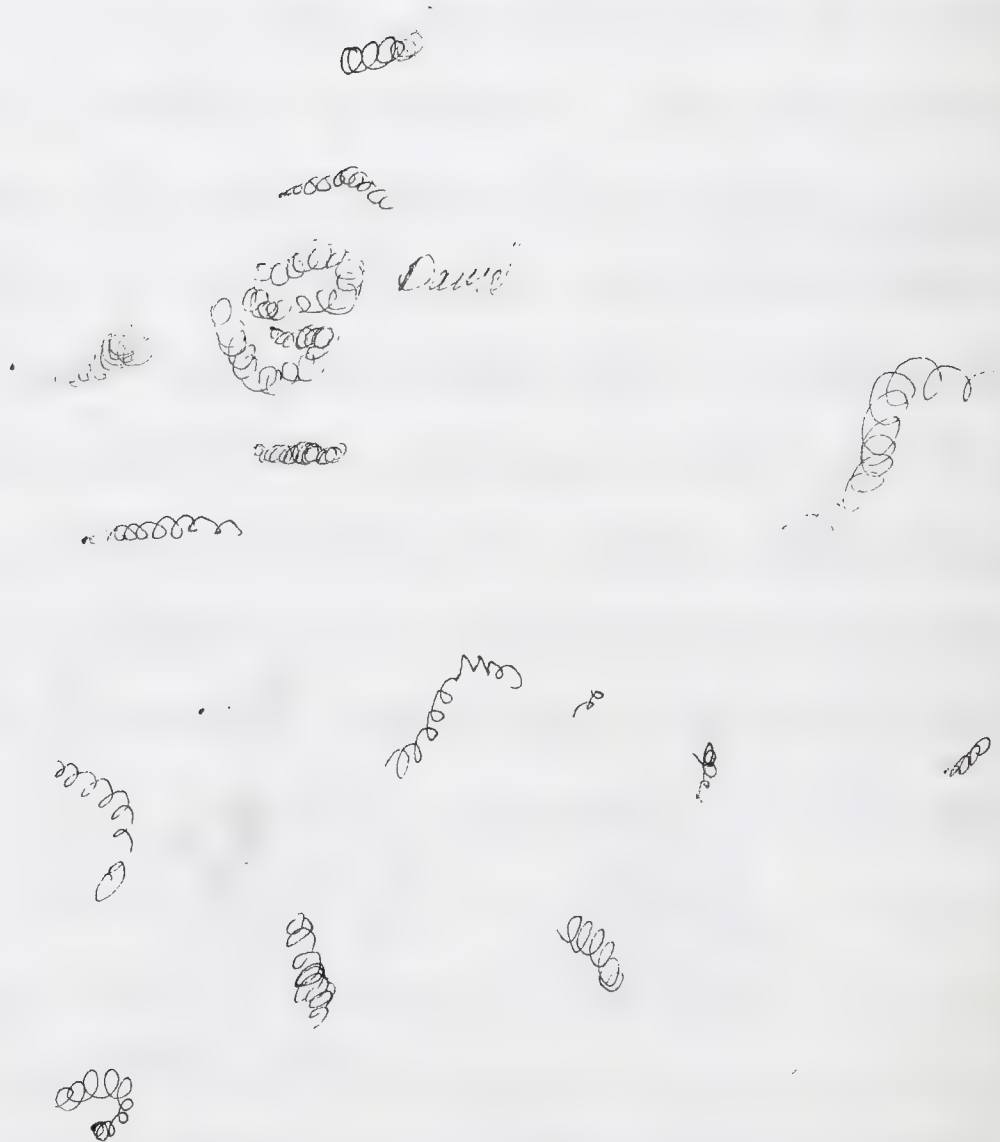
Summary on RC-1 drift lines: P. californicus : 3 captures

Perognathus : 2 "

S. townsendi : 1 " (mortality)

Total 6 CAPTURES

Returned to lab. to process tissues and dead animals. Today was another hot day in the 100's.



Hastings Natural History Reservation, Monterey Co., Calif.

Oct. 4 (cont) Set all traps on RC-1 and drift lines from 1645 to 1800hrs.
Finished drift lines on MC-1 by 1830hrs.

2230hrs - out checking traps on drift fence west of RC-1. Moon is $> 3/4$ full and very bright. It's warm (80's). Didn't catch #835 but followed green powder trail to steep bank, ~~2~~ 2m down, above creek. No sign of nest hole.

Oct 5 0645hrs - out checking drift lines on MC-1. It's calm, clear, upper 70's. Finished checking all traps by 0900 which was just in time as the sun began to hit some traps. Note several things on Grid RC-1. #1079 ♀ lactating was dusted RED. She escaped to a hole in a stump between stations 7,15 & 6,14. #835 was caught and dusted, and she was not lactating. One of her young marked in August (1949) was captured with faint amount of green on ears - old transfer. #1020 ♂ had fresh green powder on ears, mouth, and eyes, and old powder on feet and penis. Returned to lab to process animals. Summary of MC-1 drift fence.

<i>P. boylii</i>	: 1 capture
<i>Perognathus</i>	: 1 "
TOTAL	: 2 CAPTURES

Summary of RC-1: *P. californicus*: 5 captures

<i>P. boylii</i>	= 5	"	(1 new)
<i>Perognathus</i>	= 7	captures	(1 new)
<i>D. megascotis</i>	: 1	"	(1 new)
<i>S. townsendi</i>	: 2	"	(1 mortality)
<i>N. fuscipes</i>	: 2	"	(2 new)

TOTAL: 22 Captures

Returned #1020's 1949 to their capture sites at 1245hrs in good condition. Reset traps on drift fence on MC-1 around 1600hrs and then went swimming at Doyces. Reset traps on RC-1 from 1815 to 1900hrs. Just getting dark when I finished. Set a Macabee for the 3 Scorpions on the west drift fence. Today was another scorcher - 106!



RIBBLE, D.O.
1987

Journal

38

Hastings Natural History Reservation, Monterey Co., Calif

Oct 5 (cont). 2200 hrs - out checking traps on RC-1. Moon is full, temp in low 80's.

2300 hrs - bled #835 at station 6, 10 and redusted her with GREEN POWDER. She really went down deep and it took over 30 min before I released her. She seemed in okay shape. 2330 hrs - stopped to check #835's old nest for ~~see~~ powder and saw some fresh green at the 2nd nest site in the mabones (see previous species accounts). I pulled the piece of bark from the opening and heard a squeak! Inside were 3 pups. Fantastic! I pulled all 3 of them out at once with my hand. They were tiny, eyes closed, tightly hunched on their backs and heads. Their ears and toes were completely developed, so there was no way for me to mark them (nor did I sever cutting those cuties). Each one was collected in green powder.

I measured one at 5.2g, approx. 65mm total length. I only measured the one because I wanted to get them back in the nest ASAP. All 3 were approx same size; no apparent runts. I attempted to sex them and came up with 1 ♂ & 2 ♀'s. I put them back in their nest and put the bark back in place. As I left, they were squeaking loudly. Finished checking all traps by 2355 hrs.

Oct. 6 0645 - out checking traps. Clear, calm. Nothing on MC-1 drift lines

On RC-1, stopped to collect tissues from 1079 & redusted her RED. (Caught #1020 at 6, 11 (new) w/ GREEN POWDER (ears, face, limbs, penis, venter). Summary of

results on RC-1: P. californicus = 4 captures

P. boylii = 3 captures (2 new)

Perognathus = 7 captures (0 new)

P. megalotis = 1 "

N. fuscipes = 4 captures (1 new)

TOTAL : 19 captures

Returned to lab to spin blood. From ¹³⁰⁰~~1400~~ to 1500 hrs I patched a small

gap in the drift fence east of MC-1, and then picked up all of the falling Sherman traps. From 1600 to 1800 hrs I reset all traps on RC-1, clearing the paths along the way with a machete. Reset MC-1 drift fences, finished around 1830 hrs.

Letter 3-

5.24.11

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from Mrs. K. and
Mr. V.

1000000

1000

1000

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1000000

RIBBON
1987

Journal

39

Hastings Natural History Reservation, Monterey Co., Calif.

Oct. 6 (cont). Today was a bit cooler (upper 90s), with a strong breeze (15 mph) to help
2220 hrs - out checking traps on RL-1. Moon is full, clear skies, upper 70s.
Finished at 2330 hrs - not much activity tonight, except that I chased a P. californicus (yellow
eye line) into the east drift fence. No damage done to the fence except for a dent - - -

Oct. 7 0640 hrs - out checking traps. It's quite cool (relative to temp's this week), low 70s. The
moon is on the western horizon. Rodusted # 1079 with Red and # 835 with the (GREEN)
on RL-1. Finished checking all traps by 0915 hrs. Some fog has drifted up
lower in the valley - perhaps our heat spell is finally over.

Summary of results on RL-1:

<i>P. californicus</i>	: 3 captures
<i>P. boylii</i>	: 1 "
<i>Perognathus</i>	: 1 " (new)
<i>R. megalotis</i>	: 2 captures (2 new)
<i>Neotoma</i>	: 0 "
Total	: 12 captures

Very little activity, probably due to very bright, full moon. Spent most
of the day washing clothes & cleaning the cabin - Yippie Skippie
Today was much cooler, only in the 80s. Reset all traps on RL-1 and
MC-1 drift lines from 1630 to 1800 hrs.

2220 hrs - out checking traps on (Grid RL-1 only / not drift fences) - The moon
is full but obscured a low level of cloud cover. Foggy in some places.
Temp in low 70s. Finished by 2315 hrs. Not much activity tonight. Even
though the moon is covered by clouds, it is still very bright.

Oct. 8 0640 - out checking traps. It's clear, calm, & cool (low 60s).

On grid RL-1, #1020 was caught w/ GREEN POWDER on ears, ^{testes} in scrotal position.
Finished checking traps by 0945 hrs. Some fog this morning in valleys.

Summary of results on RL-1:

<i>P. californicus</i>	: 5 captures
<i>P. boylii</i>	: 2 "
<i>Perognathus</i>	: 7 " (1 new)
<i>Microtus</i>	: 1 new animal
<i>R. megalotis</i>	: 1 new animal
<i>N. fuscipes</i>	: 1 capture
TOTAL	: 17 captures

Handwritten scribble consisting of several small loops.

Small handwritten mark.

Small handwritten mark.

Small handwritten mark.

Small handwritten mark.

Small handwritten mark.

Small handwritten mark.

Handwritten scribble consisting of several small loops.

Handwritten scribble consisting of several small loops.

Small handwritten mark.

Small handwritten mark.

Small handwritten mark.

Sagebrush Natural History Reservation, Mendocino Co., Calif.

Oct. 8 (cont.). Spent the morning working on the drift fence east of MC-1.

Installed a screen between the fence and the dry stream bed. It's only ~20 cm of screen, so if the stream moves up much it will have to be adjusted. Before leaving, I closed all traps on MC-1 drift lines and opened up the back of the traps. After lunch I went to RL-1 to do some work. First, I went in on #835's nest and she was there with the young. Wanted to make sure it was #835 on the nest.

Next, I looked inside a stump that #1079 was seen going in. I carved out the passage hole to look in, and no nest was found. Cut a trail to expand the west drift fence of RL-1 to the south. Will require an additional 35 ft (~11 m) of fencing. This will give 2 more stations on this line. Reset all traps on RL-1 from 1630 to 1730 hrs.

Oct. 9 0520 hrs - out checking traps on RL-1. Moon is less than full, but very bright. Temp approx 20°C. Clear. Redused #1079 with RED at station 5, 14.

Redused #835 with GREEN at 6, 10. Finished checking traps at 0730 hrs. Best results to date on this grid. The fog rolled in about the time the sun came up. * Caught #1951 with Red Powder on ears, eyes, mouth, limbs, tail. Presumably then this is an offspring of #1079. Returned him to lab to collect tissues.

Summary of trap results:

<u>P. californicus</u>	:	6	captures (1 new)
<u>P. boylii</u>	:	5	" (2 new)
<u>P. maniculatus</u>	:	1	"
<u>Perognathus</u>	:	7	"
<u>Microtus</u>	:	1	new animal
<u>R. megalotis</u>	:	2	captures
<u>Sorex harrisi</u>	:	1	"
<u>N. fuscipes</u>	:	3	"

TOTAL: 210 Captures.

RIBBE, D.O.
1987

JOURNAL

41

Hastings Reservation, Monterey Co., Calif.

Oct. 9 (cont) Returned #1451 to field on my way out to Berkeley, around ⁰⁹³⁰ 0900 hrs.

Could see RED powder throughout the fallen Madrone east of B. 12 - probably where #1079 has her nest.

Oct 12 Returned to Hastings with M. Salvioni around 1700 hrs. It's clear, calm, and cool (70's). We set all traps on RC-1 plus drift fence traps from 1745 to 1830 hrs.

2240 hrs - out checking traps on RC-1. It's calm, 70's, and overcast. No moon or stars visible.

Oct 13 By 0030 hrs the clouds cleared and the moon (1/2 full) rose in the eastern skies. Very busy night! Collected tissues from #1452 (young of B 35), 1454 (new animal), and 1455 (young of #1079, covered with RED Powder). Also radio-collared #1079 and B 35 (which was dusted GREEN). Finished checking all traps by 0120 and returned to the lab to spin blood.

0715 hrs - back on RC-1 checking traps. It's clear, calm, and cool (60's). Went in on nest of # B 35 and ~~the~~ tree-clipped 3 young as follows.

# 100	♂	9g	99-40-19-11	} young of female # B 35
# 200	♀	8.5g	98-40-18-10.5 white tail tip	
# 300	♀	9.5g	98-43-19-11.0	

All are fully haired, eyes still closed, pinna not completely developed. Not possible to collect samples from these.

Finished checking traps at 0830h. Summary of trap results for this AM's last night as follows.

	PML (12th)	Δm (13th)
<u>P. californicus</u>	6 capt. (2 new)	3 capt.
<u>P. boylii</u>	3 " (1 ")	3 "
<u>Perognathus</u>	12 " (3 ")	7 "
<u>P. macrotis</u>	12 " (12 ")	1 " (1 new)
<u>N. fuscipes</u>	5 " (1 ")	3 "
<u>Microtus</u>	0	1 "
<u>T. bottae</u>	1 " (1 ")	—
<u>P. maniculatus</u>	—	1 "

Total: 28 captures (9 new) / 18 Capt. (1 new)

Hastings Reservation, Monterey Co., Calif.

Oct. 13. Obviously, most animals are active early in the evening prior to moon-rise. Returned to lab to stuff animals.

Before noon, we returned to the grid and finished expanding the drift fence west of RC-1. It now goes up to station W-12. We also took radio-readings on animals (see spp. acct.).

We set the traps on ~~the~~ MC-1 drift lines around 1730hrs.

We then went to RC-1 and while Marco ~~set~~ checked on radio signals, I set only the following stations: 7,16; 6,16; 5,16; 5,17; 5,15; and 5,14. We are trying to catch #1944♂, while radio-tracking the 3 animals with traps closed.

2050hrs - out on RC-1 to check few traps set; Radio-track. It's clear, calm, and cool (low 60's). Finished @ 2355hrs. See spp. acct (P. californicus) for details of night tracks.

Oct. 14 0800hrs - out to check MC-1 drift lines. It's clear, calm, low 70's.

No captures on drift lines. Spent the morning working in the cabin.

13³⁰hrs - Marco and I staked out some additional points west of grid RC-1 for use ^{as} radio-telemetry reference points. Staked out 3,6; 3,4; 2,4; 2,5 (1m west of true point); and 1,5 (3m west of true point). We were also able to map the true location of the west drift fence. 1430hrs - we tried out our paint mixture on the drift fence west of RC-1. It took the 2 of us 1 hr. to paint (stoppy) the entire fence. Our mixture turned out Pink (hideous), or rather desert rose. I'm not sure about this color, and may paint over it. It will definitely be better than straight aluminum.

Reset traps on MC-1 drift fences around 1700hrs. Today was clear, calm, low 80's. Very nice!

RIBBLE, D.O.
1987

JOURNAL

43

Hastings Natural History Reservation, Monterey Co., Calif.

- Oct. 15. 0310 hrs - out for radio-tracking on RC-1. Marco was out this evening from 2100 to 2400 hrs (Oct 14). It's clear, cool (low 60's), and the moon is $< \frac{1}{2}$ full at about 1:30 in the eastern sky. See Data sheet for record of night's events. Finished at 0630 and moved on to check MC-1 drift fence. 3 captures this morning: 2 Perognathus, 1 P. boylii. In the afternoon Marco & I drove up to the Arnold Cabin. Reset MC-1 drift fences at 1600 hrs. Today was clear, calm, low 80's.
- 2230 hrs - out on RC-1 to radio-track animals. Marco has been here since 2000 hrs. It's clear, calm, upper 60's, moon hasn't risen yet. See Sp. Acct. data for details.
- Oct 16. At 0100 hrs I set traps at 17 trap stations in order to get radio-collars back. Got signals from animals once more at 0140 hrs before heading in. The moon hadn't risen yet at it is quite cool (low 60's).
- 0700 hrs - Marco went out on RC-1 to check traps and only got collar from #835. 0900 hrs - Both of us checked MC-1 drift fences: 1 Perognathus; 1 dead California Thrasher. Marco headed back for Berkeley this sat.
- 11030 hrs - I set the traps on RC-1 drift lines and about 18 trap stations on the grid to try for the other radio-collars.
- 1700 hrs - reset traps on MC-1 drift fences. Today was clear, calm, temp in low 80's.
- 2100 hrs - out checking traps on RC-1. Clear & calm. Didn't catch any of the collared animals & not much activity on grid. Note that grid data not recorded since not all traps set.

Hastings Natural History Reservation, Monterey Co. Calif

Oct 17 0600hrs - out checking traps on RC-1. Clear, calm this am.

didn't catch #1079 ♀, but I picked up her signal in the fallen live oak east of station 7,11e. Caught #1944 ♂ at 5,16. No obvious powder.

Caught ♂ #1020 at 6,11 and removed the radio-collar. Also

caught #835 ♀ at that station. Got radio-signal from #1079 in ~~the~~ fallen oak ~~to~~ to the east of 7,16.

Took the rest of the day off for Melanie's B'DAY.

Oct 18 1600hrs - Need to find another area to set a grid for

P. californicus, so for the next 3 nights I will set traps in West Ravine, west of the road up to the Anold. I trapped here in 1986 and designated it Transect XIII, so I will use that again. I set out 20 trap stations up the ravine, with 2 traps per station, using traps no.

341-360, then 141-160. The habitat is similar to

Madron Canyon (dense canopy of live Oaks, Buckeyes, Bay trees, few Sycamores) but with much more Poison Oak. Parts of the Ravine are quite steep.

Reset traps on RC-1 drift lines and traps on RC-1 only

for #1079 ♀. Reset MC-1 drift lines around 1730hrs.

Oct 19 0650 - out on MC-1 checking drift lines. It's clear, calm, upper 60's,

moon is $< 1/4$ and about ^{10:30} 10 o'clock in the sky. 0740 - checking RC-1. A lot of animals on drift lines, but no luck catching #1079 on the grid.

TRANSECT XIII results:

Trap #.	#	Species	Wt.	Sex	Age	Bridge
N	342	1957 <u>P. californicus</u>	41.5	♀	M	perf., nulliparous
N	346	010 <u>Perognathus</u>	26	♀	M	imp, parous
N	350	020 <u>Perognathus</u>	22	♀	M	imp, parous

Hastings Natural History Reservation, Monterey Co., Calif.

Oct. 19 (cont.) Transect XIII results (cont.):

	Trap #	#	Sp.				
n	353	030	Perognathus	16	♂	SSD	TUD
	359	040	Perognathus	22.5	♂	M	TND
	156	Didn't Mark	N. fuscipes			M	
n	157	0100	Perognathus		♂	M	TND Torpid. left in trap w/ door open.

Finished checking traps by 0915 hrs. Went into town today for paint darker and came back with gray overtones. Unfortunately the results ~~were~~ ^{was a} purple paint. I painted ~12m of the drift fence east of MC-1 - I want to wait & see what this looks like when dry, but I think it is still to light for my taste (e.g. ugly).

1600hrs - reset traps on Transect XIII. 1700hrs - located radio-signal of #1079♀ around station 5, 13. In the process of looking for her I found ~6 Bay tree fruits that had the seed removed with obvious rodent gnaw marks on the ^(nut part) fleshy covering. About 75-60% of the fleshy covering remained behind on each one. Thinking this as a preferred food (see J. Meritt's studies), I removed several ^{fruits} from a local tree and set traps ~~with~~ by smearing the juices from the covering on the door and leaving the seed in the back of the trap. I set ~~the~~ stations 5, 13; 5, 14, & 6, 13; plus 4 extra traps in the vicinity at the base of trees, etc.

1800hrs - reset traps on MC-1 drift fences.

2245 hrs - out checking only traps on MC-1 set for #1079♀. Did not catch her, but got her signal near 4, 14; moving along the creek. Clear & cool (60's) this evening.

RIBBLE, D.D.
1987

Journal

46

Hastings Natural History Reservation, Monterey Co., Calif.

Oct 20 0700hrs - out checking traps on MC-1 drift lines. It's calm, cool (60s); foggy. Once again, failed to catch #1079 ♀. Did get here signal from the same place as yesterday, st 5, 13 in a dead, hollow, standing Bay tree 3m south of the station.

TRANSECT XIII results

Trap.	No.	Spp.	Wt.	Sex	Age	Brdg.	
N	342	1958	<u>P. californicus</u>	32	♂	M	TND (close). White-tail tip. Scar on back between shoulders. Predation escape?

350 0200 Perognathus RECAP.

N 359 0110 Perognathus 23 ♀ M. Imp. parous

N 142 1959 P. californicus 39.5 ♀ M, perforate, lactating or post lactating. Escaped to stuan bed.

N 149 1960 P. californicus 18.5 ♂ Imm, TND

N 149 1961 P. californicus 36 ♂ M, TND.

} Caught in same trap; escaped both under same boulder in stuan bed

150 Didit tag N. fuscipes Subadult.

156 " " " Big ADULT!

N 158 0120 Perognathus 19 ♀ SAD, well lip.

Finished checking traps by 0900. The fog has lifted and skies are mostly overcast. Great results on Transect XIII this AM.

It stayed mostly overcast today, with the high only in the mid 70's.

From 1545 to 1700 hrs I set traps on RC-1 with peanut butter

& oats - hoping that the peanut butter will lure #1079 into

a trap. Set traps from 7, 17 to 5, 12; plus a concentration of traps around 5, 13. Reset RC-1 drift lines as usual.

Reset traps on Transect XIII & MC-1 drift fences from 1700 to 1800 hrs

2330 hrs - finally caught #1079 ♀ at st. 6, 14 in good shape - 43g. Perforate.

Left the running traps to check in the AM. With Peanut Butter all

animals should be fine. Also, set 6, 10 & 6, 11 for #835.

The skies are clear tonight.

Hastings Natural History Reservation, Monterey Co., Calif.

Oct. 21 DFOCUS - out checking traps on MC-1 drift lens. No moon, few scattered clouds, and cool (mid 60's). On Grid EC-1, station Cat No. 793 5,17 had a dead ♂ S. townsendi (5.5g.). Caught a live S. latianus at 5,13. I didn't mark it, but did handle it - Amazing animal! Caught #835 at 6,10 and released her while I checked the nest for the babies. The bank covering the nest entrance was on the ground and there were no young. The moss nest was obviously not maintained. When I released #835 she took immediate refuge in the nest entrance. But, after ~4 min she darted out to the downed live oak 5m to the east and down towards the stream bank between 6,10 & 6,11. Also, note that #1020 ♂ was caught at 4,13 this AM.

Transect VIII Results.

Trap	No	Spp	Wt.	Sex	Age	Body
	341	1957 <u>P. californicus</u>	RECAP			Blood, ear, saliva collected
		tagged left ear since rt. chewed up				
New	344	1962 <u>P. californicus</u>	41.5	♂	M	scrotal. Blood, ear, saliva collected
	346	030 <u>Perognathus</u>	RECAP			
		White tip, black band, white band tail.				
N.	350	1963 <u>P. californicus</u>	26	♀	SAD	nullip. Blood, ear, saliva
N	356	010 <u>P. boylii</u>	27	♀	M	perforate teats swollen but not lactating.
N	359	0130 <u>Perognathus</u>	22	♀	M	parous imperfectly
	155	Didn't tag <u>N. fuscipes</u>			M	
N	160	1964 <u>P. californicus</u>	38	♀	M	parous, perforate early pregnancy. Blood, ear, saliva
	158	1961 <u>P. californicus</u>	38.5	♂	M	recapture TWD (barely) 2 saliva's - 1 has saliva + heparin Blood, ear, saliva
	153	Didn't Tag <u>N. fuscipes</u>			SAD	
	152	" " "			"	

Finished checking traps at 1045 & picked up all traps. Went back to lab to process blood & dead soxex. Left for Berkeley this afternoon under partly cloudy skies.

Hastings Natural History Reservation, Monterey Co., Calif.

Nov. 2 Arrived back to Hastings around 1500 hrs. In the span of a week, the rain has caused the hills to start turning green. Forks' grasses have finally started growing after a long, dry summer. J. Griffin said Hastings received 7.10 inches of rain in the preceding 10 days. Today is partly cloudy, cool (low 70's). It sprinkled a few times this afternoon. Set traps on RC-1 (gud's drift fence) from 1530 to 1730h (PST - off of DST). Most of the non-folding Sherman's had mold in them which I brushed out. It's dark by 1545 hrs, just as the moon rises ($\approx 3/4$ full). This evening was cool and clear. Since it doesn't look like rain, I'll wait until AM to check traps.

Nov 3 0630 hrs - out checking traps on RC-1. It's clear, calm, temp in mid 40's. Light frost on roofs and in meadows. It's light enough to work at 0615 hrs. Great results this A.M. Caught all 3 pups of #835's litter and 2 new P. californicus - bled all these. Didn't finish checking traps until 1030 hrs. Summary of results:

<u>P. californicus</u> :	8 captures	(2 new)
<u>P. boylii</u> :	13 captures	(8 new)
<u>Perognathus</u> :	5	" (0 new)
<u>N. fuscipes</u> :	1	" (0)
<u>Microtus</u> :	4	" (2 new)
<u>S. townsendii</u> :	2	" (2 mortalities)

TOTAL: 33 captures.

Returned to lab to process blood's' stuff Sorex. Screwed up with blood - washed with H₂O & spun the blood. Realized what I had done after spinning, so didn't decant and froze the non-washed hemolysate. Today was clear, slight breeze, temp in low 70's.

Hastings Natural History Reservation, Monterey Co. Calif.

Nov. 3 (cont). Reset traps on RC-1 drift lines from 1530 to 1630 hrs. Had a recapture on the drift fence (see drift fence data). Also, I sunk 2 coffee cans in the ground on either side of the fence at E-7 to catch the *Scapanus* (hopefully). Set traps on MC-1 drift fences from 1645 to 1715 hrs.

2145 hrs - out checking traps on RC-1. It's clear, calm, cool (low 50's), and moon is almost full overhead. Finished checking traps by 2300 hrs.

Nov. 4 0630 hrs - out checking traps on MC-1 drift line. It's overcast, breezy, and cool (40's). It rained this am at 0500 hrs. Clouds moved in from the east. Continued to rain lightly through the morning. Dusted #1079 (pregnant) with RED Powder. Finished checking traps by 0900 hrs. Bled #190 ♂ at truck and released at drift fence. Started to rain again as I finished up.

(Nov 3 PM)

Summary of results this am:	<u>P. californicus</u> :	5 captures	5 (1 new)
	<u>P. boylii</u> :	8 captures (2 new)	8 (1 new)
	<u>Perognathus</u> :	6 captures	6 (0)
	<u>R. megalotis</u> :	2 captures	2 (1 new)
	<u>N. fuscipes</u> :	1 "	0
	<u>M. eritrus</u> :	1 "	2
	<u>S. townsendii</u> :	1 " (1 new)	1 (1 new)
	<u>S. latimanus</u> :	0	1
Total		24 captures	26 captures

Returned to lab to process blood & prepare S. latimanus. It quit raining around 1300 hrs and remained overcast the rest of the day. In the afternoon I sunk ⁸ additional coffee cans on the drift fence east of RC-1. I put 2 on either side of the fence at stations (2m S of) E-2, E-4, E-6, ^{and} E-8; plus the 2 at E-7. I then painted ~10m of the fence with a new mixture - dark grey. This color will suffice for cutting down the reflection.

RIBBLE, D.O.
1987

Journal

50

Hastings Reservation, Monterey Co., Calif.

Nov. 4 (cont). Reset all traps from 1600 to 1730 hrs. The traps are getting very mucky with wet bait - tomorrow I should clean out all traps.

2140 hrs - out checking traps on RC-1. It's lightly overcast, calm, 50's. Finished by 2245 hrs

Nov. 5 0630 hrs - out checking traps on MC-1 drift lines. Caught a live Sorex ornatus, first time I've seen this here. Finished checking RC-1 by 0900 hrs. This morning was overcast, temp \pm 50's.

Summary of Results:		Nov 4 (PM)		Nov 5 (AM)
<u>P. californicus</u>	6 captures	6		8
<u>P. boylii</u>	5 " (2 new)	2		8
<u>Perognathus</u>	7 " (1 new)	5		9
<u>E. megalotis</u>	—	1		1
<u>N. fuscipes</u>	1	1		1
<u>Microtus</u>	1	—		1
<u>Sorex</u>	1	—		1
Total	21	15		29

The traps are turning into oatmeal mush, so I opened up many of them to dry out. It rained hard at the cabin $\frac{1}{2}$ in Madro Canyon from around 1300 hrs, but apparently not on Redwood Creek. In the afternoon I sunk 10 cans on the drift fence west of RC-1 (5's W-2, W-4, ... W-10). Reset traps from 1500 to 1630 hrs. Cleaned out many of the traps. Started to sprinkle lightly when I was resetting MC-1 drift lines. Will not check traps tonight. (Full moon tonight).

Nov. 6 0630 hrs - out checking traps. It's mostly cloudy and cool (40's). On RC-1, caught #1955 at 4, 18 covered with fresh RED Powder. Finished checking traps by 0900 hrs. Returned to lab to bleed #1915 and stuff mortalities.

RIBBLE, D.D.
1987

JOURNAL

51

Hastings Reservation, Monterey Co., Calif

Nov. 6 (cont) Summary of Results: P. californicus: 5 captures

P. boylii : 13 captures (2 new, 1 dead)

Perognathus : 7 "

P. megalotis : 4 " (1 new)

Scapanus : 1 "

Microtus : 2 " (1 new)

S. townsendii : 2 " (1 dead)

TOTAL : 34 Captures.

Reset traps on RC-1 from 1430 to 1600 hrs - had to clean out several traps. Finished resetting MC-1 by 1700 hrs. Today was overcast, but a slight breeze dried things out somewhat. This evening was clear, cool (40's), with a very bright moon.

Nov 7 0600 hrs - out checking traps. It's cool (40's) and mostly clear. Finished checking traps by 0900 hrs. It's clear & sunny!

Summary of RC-1: Results: P. californicus: 7 captures

P. boylii : 6 captures

Perognathus : 8 "

P. megalotis : 5 "

N. fuscipes : 1 "

S. latimanus : 1 " (killed - on drift fence)

S. townsendii : 3 " (1 mortality)

Microtus : 3 "

TOTAL : 34 captures.

Returned to lab to stuff Sorex's Scapanus. Spent part of the day restocking the firewood supply at the cabin. Today was warm & sunny. The grass is really greening up - quite the sight to see with trees losing their leaves at the same time. Reset traps on RC-1 from 1330 to 1600 hrs. Reset traps on MC-1 around 1630 hrs. I also set out cans on MC-1 drift lines to sink tomorrow. I need 5 more cans to complete the east fence

RIBBLE, D.O.
1987

JOURNAL

52

Hastings Reservation, Monterey Co., Calif.

Nov. 7. Tonight was clear $\frac{1}{2}$ calm. The moon ($\sim \frac{3}{4}$ full) came up about 1900hrs, so there was a brief period of darkness.

Nov. 8 0630hrs - out checking traps. It's cool (40s), clear, with a slight breeze. Finished checking traps by 0900hrs. Picked up all folding Shermans on the grid. Returned & spent the morning cleaning the folding Shermans. Summary of results:

<u>P. californicus</u>	: 7 captures
<u>P. boylii</u>	: 10 captures (1 new)
<u>Perognathus</u>	: 7 captures
<u>T. megalotis</u>	: 1 "
<u>S. townsendii</u>	: 1 "
<u>M. californicus</u>	: 3 " (1 new)
<u>TOTAL</u>	: 29 captures

Set traps on MC-1 from 1400 to 1630hrs. It took longer than usual because I moved all non-folding Shermans to the top 2 rows and far east trap stations. Most of the non-folding Shermans had to be cleaned out. Grass & forbs are sprouting out and the buckeyes are beginning to bud out. A lot of smaller (relative to blue's valley oak) acorns are in the leaf litter. Reset traps on MC-1 drift lines around 1700hrs. The moon rose tonight at 2015hrs ($< \frac{3}{4}$).

Nov. 9. 0630hrs - out checking traps on MC-1. It's overcast and in the low 50s this morning. 0700 - dusted #1943 (♀ lactating) with Red at 10, 12. She escaped to a hole 2m west of station. Finished checking all traps around 0830. It sprinkled a bit this morning, but the clouds are beginning to clear. Returned to lab to stuff Sorex mortality. Summary of results on MC-1:

<u>P. californicus</u>	: 3 captures
<u>P. boylii</u>	: 2 captures (1 new)
<u>P. truei</u>	: 2 " (2 new)
<u>Perognathus</u>	: 5 "
<u>S. townsendii</u>	: 1 " (mortality)
<u>TOTAL</u>	: 13 captures

Hastings Reservation, Monterey Co., Calif.

Nov. 9. Went into town during the day. From 1400 to 1600 hrs I sunk coffee cans on the drift fence west of MC-1. It took awhile to sink all 12 cans because I had to hand dig rocks out.

Reset traps from 1600 to 1645 hrs. I need to replace the bait on the drift fences because some of it is getting moldy.

Reset RC-1 around 1700 hrs. Set a McAllister trap at station W-3 for the *Scapanus* (?) that keeps covering traps. Today was warm (upper 70's) and partly cloudy.

2200 hrs - out to check only grid traps on MC-1. It's clear, calm, low 50's, the moon ($< 3/4$ full) has just risen.

2230 hrs - Relusked #1934 ♀ at 9, 13 with RED powder. She escaped to base of live oak ~1 m south of station. Finished checking traps by 2250 hrs and returned home.

Nov. 10. 0700 hrs - out checking traps on MC-1. It's clear, breezy, $\frac{1}{2}$ cool (upper 40's). Finished checking traps by 0840. Heard Great Horned Owl calling west of grid RC-1 ~50 m.

	10 (am)	9 (pm)	# individuals
Summary of Results on MC-1: <i>P. californicus</i>	1 capt	2 capt (1 new)	3
<i>P. boylii</i>	4 capt (3 new)	0	4
<i>P. truei</i>	2 capt	2 capt	4
<i>Perognathus</i>	3 "	4 capt	5
<i>N. fuscipes</i>	0	1 capt	1
TOTAL	10	5	17

I spent the rest of the morning sinking coffee cans on the drift fence east of MC-1. I need 3 more to finish. In the afternoon I pruned the same fence and finished all but 15 m on one side. Reset MC-1 traps from 1500 to 1630, and finished RC-1 by 1700 hrs. I cleaned out all drift line ~~traps~~ ^{traps} & put in new bait.

Hastings Reservation, Monterey Co., Calif

Nov. 11 0050 hrs - I spent the evening in town this evening with an old friend (L. Howard) and didn't get back till late. Due to the late hour I'm going to only check traps for #1943 ♀. It's clear, calm, moon is $> \frac{1}{2}$ full.

Caught #1941 ♂ at 9, 13 - red powder on ears, face, etc. Caught #1942 *N. fuscipes* at 10, 12. Checked all traps around station 9, 13 and headed home at 0110 hrs.

0700 hrs - out checking traps on MC-1. It's clear, calm, & cool (upper 40's).

Caught a *N. fuscipes* by tail at W-9 (MC-1). It dragged the trap 2.5 m to the west, so I presume it was caught going in. I released it back out since it was in ^(hopefully it will go to its nest?) poor shape. The tail sheath & tail were intact, but barely. Caught #1943 at 9, 12 (52g). She escaped into the old *Neotoma* midden above(s) the station. Finished checking traps by 0900 hrs. Returned #1971 to lab to collect blood & tissues.

Summary of Results: *P. californicus*: 3 captures

P. boylii: 3 " (2 new)

P. truei: 4 " (2 new)

Perognathus: 4 " (1 new)

N. fuscipes: 2 " (1 new)

TOTAL: 16 captures.

Spent the afternoon talking to one of the manager candidates and washing clothes. Reset all traps from 1530 to 1700 hrs. Today was clear, calm, and very warm (low 80's).

2130 hrs - out to check traps on MC-1. I'm only going to check rows 9 & 10; principally to check for ♀ #1943. The moon is not out yet. Finished checking traps by 2230 hrs and headed home.

P. BIBLE, D.O.
1987

Journal

58

Hastings Reservation, Monterey Co., Calif.

Nov. 12 0700hrs - out checking traps on MC-1. It's calm, clear, and cool (low 50's) - Redusted #1943 with RED powder at 9, 12. (Wt = 44.5g, lactating)
She escaped to an old Deetoma midden 4m west of trap station.
Finished checking traps by 0900hrs. Took #1975 (new P. californicus) back to lab to collect tissues.

Summary of capture results.	^{12 (am)} <u>P. californicus</u> 2 captures	^{11 (pm)} 2 captures	# individuals
<u>P. boylii</u> 7 "	(2 new)	0	7
* <u>P. truei</u> #2 "	(2 new)	3 #1 " (1 new)	4
<u>Perognathus</u> 5 "		2	6
<u>N. fuscipes</u> 1 "		0	1
TOTAL	17	5	21

* The immature P. truei that I have been catching are all similar in size and identification is somewhat tenuous. They are definitely not P. boylii, but they could be P. californicus. This applies to #'s 0430 through 01120. I should make complete measurements on those & compare to know P. californicus. It will also be apparent when they are a few weeks older - P. truei will start molting into adult plumage sooner.
In the afternoon I finished painting the drift fence east of MC-1 and painted up to W-9 on the west fence. Reset MC-1 traps from 1500 to 1600hrs and reset RC-1 drift lines around 1630h. Released #1975 and she went down the fence toward the creek, eventually heading east under the clump of young madrones east of E-2.
Today was mostly clear & warm (70's). Around 1600hrs low clouds moved up the valley but never got past Hastings.

RIBBLE, D.O.
1987

Journal

56

Hastings Reservation, Monterey Co., Calif.

Nov 12 (cont) 2250 hrs - out checking traps on MC-1. It's cool (low 50's) and partially overcast. The moon hasn't risen. I'm only going to check the top 2 rows of the grid and enter the data here in Journal (primary objective is to check for #1943 ♀ lactating.)

Results: *P. truei* #0410 ♂ AD, St 9, 5.

New *P. californicus* #1976 ♀ Mat, Favous, lump, ^{kits swollen} post-lactating(?), ^{couldn't palp any young} 44g. St. 10, 6.

P. truei #01110 ♀ lactating. St. 10, 7

" " #0430 Immature " 10, 8.

" " #0320 ♂ " 10, 9

P. californicus #1971 ♂ " 10, 10.

" " 1943 ♀ lactating 9, 12. Rodusted w/ Rod. Escaped to west.

Finished checking traps by 2330 hrs. Note new *P. californicus* captured.

Nov 13. 0700 hrs - out checking traps. It's overcast (low clouds) and cool (upper 40's). Not as many captures on MC-1 as I had expected, given results from last night. Many (~²⁰/₃₀) traps along the creek bottom had been rolled & closed, possibly a *Procyon* or *Didelphis*. * On RC-1 drift lines, I caught #1931 ♀ lactating at st. E-5 (out). I dusted her with ORANGE powder and released her into grid. She escaped toward the stream in a SW direction. She needs to be held, but I wanted her to get back to her young ASAP. Finished checking traps by 0900 hrs. Collected a *F. concolor* (?) scat on the Main Road adjacent to Grid RC-1. Returned to lab with #1977 to collect tissues



RIBBLE, D.D.
1987

Journal

57

Hastings Reservation, Monterey Co., Calif.

	13 (am)	12 (pm)	# ind.
Nov 13 (cont) Summary of MC-1 results: <u>P. californicus</u>	3 captures	3 (captures/new)	4
<u>P. boylii</u>	5 3 " (1 new)	—	5
<u>P. truei</u>	1 "	4 (captures)	4
<u>Perognathus</u>	4 "	—	4
TOTAL	13	7	17

Note on RC-1 drift fences I caught ~~an~~ previously tagged P. californicus (♀ lactating) and a new P. californicus. The sun came out this AM, but by 1000 hrs it was cloudy-overcast, again. It rained hard from 1100 hrs to 1300 hrs. The mammal class arrived around 1400 hrs. From 1500 to 1600 hrs, M. Salvioni and I reset traps on MC-1. We also set out a large Havahart and smaller Havahart to try and catch whatever is turning traps. We reset traps on RC-1 drift lines around 1630 hrs. We also put out 4 mole traps (shower-type) at stations W-3(x2), W-9, and E-7. ~~It was seen~~. We released # 1977 ^(inside) and he climbed ~3m up ~~and~~ a Madrone and fell to the ground. He then scurried along the fence toward the creek, but I made him turn around. It was obvious he wanted back across. Finally (after 5 min) he went into a trap at E-9 and we let him to the outside. It sprinkled on and off into the evening; 2200 hrs - out checking traps on MC-1 with Marco & B. Peyton. Breezy, cool, and overcast. Radio-collared # 1943 at station 9, 12 - ~~Cliff 3~~ ^{checked all traps including drift lines} Finished checking traps at 2330 hrs. Took # 1976 back to lab and bled her. Will leave her in cage overnight.

Nov 14. 0640 - out checking traps with Marco. It's overcast and calm (50's) Picked up radio-signal of # 1943 at station 9, 10 which is an old Neotoma middler. At the top there is an

Hastings Reservation, Monterey Co., Calif.

Nov. 14 (cont). entrance next to a rock which is covered with RED powder. We closed all traps on MC-1.

On RC-1, caught a lactating P. californicus #1917. We held her at the truck, dusted her with RED powder, and released her. Also caught a S. latimanus in a thorn at ^W 9 on RC-1, which we overdosed on Metam and gave to a Mammalogy student to prepare.

Finished checking traps by 0900hrs under clear, sunny skies. Summary of Results:

	13 (PM)	14 (AM)	# individuals
<u>P. californicus</u>	4	1	4
<u>P. boylii</u>	6 (3 new)	4 (1 new)	8
<u>P. truei</u>	0	1	1
<u>P. maniculatus</u>	1 (1 new)	0	1
<u>Perognathus</u>	4	1	4
<u>N. fuscipes</u>	0	1	1
<u>S. howlandii</u>	1	0	1
TOTAL	16	8	20

We closed all the traps on MC-1. Tonight we will open only traps on the top 2 rows to catch #19410.

1500hrs - re-set MC-1 drift lines and 2 top rows on the grid.

Re-set RC-1 drift lines around 1600hrs. It remained clear

& sunny today.

2130hrs - out to check only traps set on MC-1 and hopefully collar

#1944's radio-track #1943. Clear, calm, upper 40's.

* Caught #1943 at 9,10 without her collar! See species acct. for description. Went home at 2315hrs - left traps on grid open.

Nov. 15. 0645 - out checking traps. It's clear, calm, and cold (low 40's).

Heavy frost on grass. Only caught one P. truei (#01100) on the grid. Summary of drift fences:

	MC-1	RC-1
<u>P. boylii</u>	3 (1 new)	2
<u>Perognathus</u>	1	5
<u>Z. macrurus</u>	0	2
<u>N. fuscipes</u>	—	1
Total	4	10



Hastings Reservation, Monterey Co., Calif.

Nov 15 (cont.) Spent the rest of the morning with the mammalogy class. The sun warmed things up fast this am. Melanie left this afternoon, as did the mammalogy class. From 1500 to 1600 hrs I reset traps on RC-1 drift fences plus 40 extra traps as follows: 5 stations ^(2 traps per) on either side of the creek west of the grid and east of the drift fence (traps #171-180 on north side of stream; #'s 161-170 on south, low # starts ~10m from drift fence); and 5 stations ^(2 traps per) on the ~~3~~ north side of the creek ~~west~~ ^{east} of the grid and west of the drift fence (#'s 341-350). Finally, I set 5 stations (2 traps per) up ~~the~~ ^a steep side canyon which intersects Robertson Creek ~10m ~~west~~ ^{downstream} from the east drift fence. This canyon consists mostly of madrone and Bay trees with little shrub-level cover. I reset drift fences on MC-1 around 1630 hrs.

2100 hrs - out checking traps on RC-1. It's clear, calm, & cool. No moon.

Trapline west of RC-1:

St.	No	Spp	Wt	Sex	Age	Brdg.	
	176	0330	<i>Perognathus</i>	♀	M	imm	PTC
N	175	0220	<i>Microtus</i>	54	♀	M	^{Barrow} Alphato
	177	010	<i>S. townsendii</i>	5	?	?	PTC
	179	—	<i>N. fuscipes</i>	untagged; Didn't TAG.			
	180	—	" "	"	"	"	"
	170	1967	<i>P. californicus</i>	23	♂	Imm	TWD
	169	0420	<i>Perognathus</i>	19	♀	imm	} St. 5, 6 PTC
	165	0130	<i>Microtus</i>	60	♂	M	WD (close) PTC St 2, 5

Trapline east of RC-1:

	349	04140	<i>P. boylii</i>	15	♂	Imm	TWD	ptc
N	349	04220	"	19	♀	"	imm	

Hastings Reservation, Monterey Co., Calif.

N →
Nov. 15 (cont) 341 04230 P. boylii 15 ♀ Imm nullip.342 1931 P. californicus 40.5 ♀ M Lactating } Retagged rt ear #1979.
Tissues collected - Dusted Orange.

Returned home at 2220 hrs after bleeding #1931. Didn't

check traps on south side, east of Grid. Returned #1931 to
her capture point and redusted her with ORANGE. I followed her
~4 m to the west where she went under a thick pile of litter
& twigs. I should check this site in the light for any
nest possibility. Returned & spun blood at 2240 hrs.

Nov. 16. 0720 hrs. - (slept late) out checking traps on MC-1. It's calm, overcast (thin clouds,

likely to turn off), and cool. Trapline West of RC-1 Results:

N 173 04240 P. boylii 23 ♂ early mature Scrotal.

176 0330 Perognathus 21 ♀ M imp, parous PTC

N 179 1980 N. fuscipes ♂ M TND (1980)

N 180 1981 N. fuscipes ♀ M imp, nulliparous

169 1969 P. californicus 35 ♂ M TND (atit swollen) } st 5, 6.

170 0420 Perognathus 19 ♀ M imp, parous

167 0340 R. megalotis 9 ♂ M TND

166 0140 Microtus ♀ M Lactating } st 2, 5

165 1917 P. californicus 40 ♀ M Lactating(?)

(1917 - dusted with new Red Powder. She escaped to N towards stream. The
fur on her back is very patchy. Cause unknown. Mating?)

N 164 1982 P. californicus 28 ♂ Imm TND } st. 1, 5 Tissues collected

163 0300 E. megalotis ♀ M imp, parous

161 0220 Perognathus ♂ M TND

N 162 04300 P. boylii 20g ♂ SAD TND

Transect East of RC-1:

350 1952 P. californicus 35g ♂ M scrotal (baldy) - Covered w/ ORANGE powder

N 349 4310 P. boylii 24g ♂ SAD scrotal

343 03400 P. boylii 205g Imm

344 (1979) P. californicus

Lactating (definitely) Redusted w/
ORANGE. Escaped to the west.

n 1931? - yes

341 0100 Microtus 53 ♀ M Lactating

RIBBLE, D.O.
1987

Journal

61

Hastings Reservation, Monterey Co., Calif

Transect east of RC-1 (cont)

Nov 16 (cont) 358 - *N. fuscipes* SAD. Didn't tag.

I bled #1982 at the truck and released ^{him} in the field before returning to the lab around 1000hrs. In the afternoon I sunk 3 more cans on MC-1 drift fence, finishing that project. Also finished painting the fence west of MC-1 which almost finished off the paint. Reset traps on MC-1 drift fences by 1600hrs, and RC-1 drift fences and transects by 1700hrs. Today was breezy, partly cloudy, and cool (low 70's). Forecast is for rain tomorrow.

2115hrs - out checking traps on RC-1. Since I'm mainly interested in lactating females, I'll only check the transects on the north side of the stream to the east ~~west~~ of the grid, and the south side to the west of the grid. Calm, with thin layer of clouds to the west. Summary of east traps #

St.	#	SPP	WT.	Sex	Age	Notes
344	0230	<i>Perognathus</i>	22	♀	M	imp. obvious.

343 1931 *P. californicus* lactating* (Before releasing her, I followed

her powder trail left this morning ~ 7m towards the stream. It ended in a thick blackberry, poison oak, stinging nettle, bay tree thicket that borders the stream. I dusted her with ORANGE & released her at this point. She went into the middle of the thicket. I searched after her for ~ 4m until I lost the trail & the veg. got too thick. Should examine this tomorrow in the light. Also checked out opposite side of creek, but no powder seen).

345 ? *N. fuscipes* Mature - tagged, but couldn't read it.

349
04310 *P. boylii* Recap

ZIBBLE, D.O.
1987

Journal

62

Hastings Reservation, Monterey Co., Calif.

Nov 16 (cont) Trapline west of MC-1.

St	#	Spp.	Sex	Age	Brds		
165	1967	<u>P. californicus</u>	23g	♂	Im	TND	St. 5, 6.

166	1967	<u>N. fuscipes</u>	SAD				St. 2, 5
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163 1917 P. californicus swollen, not-lactating St. 1, 5. Redusted Red
and she escaped to west away from stream. Lost road 3m east of W-16 on drift fence.

164 0220 Perognathus RECAP

Finished by 2240hrs and headed home.

Nov 17 0645hrs - out checking traps. It's overcast, low 50's, wet. It has drizzled this morning. Transect east of RC-1 Results:

St	#	Spp	Sex	Age	Brds	Escaped towards stream
349	1931	<u>P. californicus</u>			RECAP	Redusted w/ ORANGE.

350 1955 " " 31 ♂ SAD TND

344 0230 Perognathus RECAP

341 0100 Microtus 535 ♀ M Defecate Pious.

355 0107 N. fuscipes SAD.

Transect west of RC-1:

N 169 04330 P. boylii 34 ♀ M lactating(?), pregnant

164 0220 Perognathus RECAP St. 1, 5.

162 0310 R. megalotis ♂ M scrotal.

176 0330 Perognathus RECAP

178 1083 N. fuscipes M.

Finished 0940hrs under a slight drizzle. Picked up traps on south side of stream, east of grid since My. Neotoma seemed present. Returned to MC-1 and picked up all of the folding Sherman traps and spent most of the morning and afternoon cleaning them out (Yippe-shippe). It continued to drizzle-sprinkle off and on through the day. When I went to pick up the traps there were some clear prints in the mud that I first thought

PIBBLE, D.O.
1987

Journal

63

Hastings Reservation, Monterey Co., Calif.

Nov 17. were Urocyon because the claws were visible. But, the track was over 3 inches long! Possibly Felis concolor with claws extended. ~~extracted~~ for traction(?). I also found Procyon tracks along the drift fence west of RC-1 with a trap rolled.
1600hrs - reset traps on RC-1. In addition to the drift fences and transects, I set stations 5,17; 6,17, 6,14; and 5,14; to try and catch #1079 to check her reproductive condition.
Reset MC-1 drift fence around 1700hrs. Also set stations 9,13; 9,12; and 9,10, to try and catch #1943.

2130hrs - out checking traps on RC-1 (trap transects only). ^{Calvin's overcast,} low SDs.

Trapline east of RC-1.

St.	#	Spp.	Wt.	Sex	Age	Bdg.
N	341	0240	Microtus	16	♀ (E)	Imm No
	344	0230	Perognathus	RECAP		

(GRID TRAPS: PTC P. boylii at 5,17, nothing else)

Trapline west of RC-1:

N	1105	0300	Microtus	22	♀	Imm, nullip.	St. 2,5
	1163	0220	Perognathus	RECAP			St 1,5.

Finished checking RC-1 traps by 2200hrs - very little activity tonight.

2215hrs - caught ♀ 1943 at 9,10. Wt = 49g. Couldn't get milk from teats, but very swollen & possibly lactating. Dusted her with new RED Powder, and she escaped along a dead limb to the south. She didn't enter Neotoma midden at station.

Nothing else captured.

Nov. 18 0700hrs - out checking traps. It is mostly overcast and cool.

Trapline east of RC-1

	Thapline east of REC						
	St.	#	Spp.	Wt.	Sex	Age	Bridge
N	341	0310	Microtus	18	♀	Imm	nulliparous
	342	Didn't tag	N. fusciceps			M	
	344	0230	Perognathus	RECAP			

PIBBLE, D.D.
1987

Journal -

64

Hastings Reservation, Monterey Co., Calif.

Nov. 18 (cont)

St.	#	Sp.	Wt	Sex	Age	Reprod.
347	Didnt tag	N. fuscipes			M	

349 1931 *P. californicus* 42 ♀ M lactating. Redusted her with orange & released her next to the stream. She escaped downstream among the thickets. Should look for Powder trail tonight.

GRID TRAPS:

5,17	1950	<i>N. fuscipes</i>			SAD	
6,14	1955	<i>P. californicus</i>	31	♂	SAD	TND
6,14	010	<i>Perognathus</i>		♂	M	TND
5,14	0130	<i>Microtus</i>	63	♂	M	TND

Transect west of RC-1:

169	1969	<i>P. californicus</i>	35	♀	SAD	nullip.	St. 5,6
168	1983	<i>N. fuscipes</i>			M		
167	Didnt tag	<i>N. fuscipes</i>			SAD		
164	0220	<i>Perognathus</i>	Recap				St. 1,5
172	1914	<i>P. californicus</i>	40	♂	M	scrotal	-Covered w/ RED POWDER.
175	0330	<i>Perognathus</i>	Recap				Escaped toward stream

Finished checking traps around 0900hrs. Returned #1983 from drift fence to lab to collect tissues. Spent the rest of the morning cutting covers for the pits on the drift fence, which I put near the cans while resetting traps. Reset traps on RC-1 from 1500 to 1615hrs. I moved several of the traps on the east side of the grid, and in the process found a potential nest site of #1931 (see spp. acct). On the west side on the north side of the stream, I only set the first three stations. Set the same traps on the grid as last night, plus station 5,17. Reset traps on MC-1 from 1630 to 1700hrs, also resetting same grid traps as last night. Today was clear, breezy, temp in mid 40's.

41
43°

RIBBLE, D.O.
1987

JOURNAL

65

Hastings Reservation, Monterey Co., Calif.

Nov 18 (cont) 2120 hrs - out checking traps on EC-1. It's clear, calm, low SD's, no moon.

Transect west of EC-1 results

St.	#	SP	Wt	Sex	Age	Bridge
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162	0300	Microtus	RECAP			
-----	------	----------	-------	--	--	--

164	0220	Perognathus	"			
-----	------	-------------	---	--	--	--

169	04330	P. boylii	"			Lactating St. 5, 6.
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GRID TRAPS:

		ptc			
6, 14	0240	S. tumbulidzei	6	?	

6, 14	010	Perognathus	RECAP		
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5, 14	1968	P. californicus	♂	M	TND
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5, 14	1079	P. californicus	40 ♀	M	teats swollen but no milk, lactating? ^{escaped towards stream} <u>Dusted New RED</u>
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5, 17	1944	P. californicus	40 ♂	M	scrotal
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5, 17	1950	N. fuscipes			SAD.
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Transect east of EC-1:

N	349	0320	Microtus	14g ♂	1m TND (tiny)
---	-----	------	----------	-------	---------------

348	1931	P. californicus	41 ♀	M	swollen, but no milk (See spp Acct.)
-----	------	-----------------	------	---	--------------------------------------

344	1952	P. californicus	♂		- Covered w/ ORANGE. Trap in middle of thicket.
-----	------	-----------------	---	--	---

341	0120	Microtus	RECAP		
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GRID MC-1

9, 10	01943	P. californicus	lactating - Rodusted		Both escaped to same hole. (See spp Acct.)
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9, 10	1941	"	scrotal, Covered w/ Red	
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Finished by 2300 hrs.

Nov. 19 0700 hrs - out checking traps. It's clear, low SD's, and breezy.

Transect east of EC-1 results

St	#	SP	Wt	Sex	Age	Bridge
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350	0100	Microtus	53g ♀	M	per, parous	
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N	349	0330	"	15g ♀	1m nullip.	
---	-----	------	---	-------	------------	--

343	0104	N. fuscipes			SAD	
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RIBBLE, D.O.  
1987

Journal

46

Hastings Reservation, Monterey Co., Calif.

Grid Traps:

Nov 19 (cont) St # spp wt sex, etc.

N 6,14 04410 *P. boylii* 18 ♂ SAD TND

6,14 1074 *P. californicus* def. lactating. Redusted w/ RED powder.

5,14 03430 *P. boylii* ♀ M lactating

5,14 0130 *Microtus* ♂ M TND (clo 4)

Transect west of RC-1 results:

~~168~~ ~~1083~~ ~~1083~~ *N. fuscipes* RECAP

N 167 1101 *P. californicus* 27 ♀ Imm nulliparous - Tissues Collected - returned to lab to collect tissues

1165 0140 *Microtus* 46 ♀ M lactating. St. 2.5

163 0220 *Perognathus* Recap St 1.5.

161 04340 *P. boylii* Recap

173 1914 *P. californicus* ♂ M scrotal.

176 0330 *Perognathus*.

Finished by 0945 hrs. All drift fence passageways were left open; pit cans were covered. Bled animals back in lab, released them at point of capture, and left for Beyerhaley this afternoon.

Nov. 23 Arrived back at Hastings around 1300 hrs. It's clear, calm, low FO's.

From 1500 to 1530 hrs I reset the traps on the drift fence on RC-1, set traps <sup>at stations</sup> 5,15; 5,14; and 6,14 on RC-1, and set a 5 station

(2 traps per) transect east of the grid. On the transect, used trap #'s 321-330, with #321 starting at drift fence. This is basically the same transect as last week. The creek bottom is very damp, and the willows have started turning yellow.

From 1600-1630 hrs I reset drift fence traps on MC-1, and set stations 9,8; 9,9; 9,10; 9,12; and 9,13. Returned to clean traps. The moon (1/8 full) is set in the west as the sun was setting.





Hastings Reservation, Monterey Co., Calif.

Nov. 23 (cont). 2115 hrs - out checking misc. traps set. It's clear, cool (40's), no moon.

Transect east of RC-1 Results:

| St.   | #            | Spp.            | Wt. | Sex | Age      | Repr.                                                                       |
|-------|--------------|-----------------|-----|-----|----------|-----------------------------------------------------------------------------|
| 321   | 1931<br>1979 | P. californicus | 41  | ♀   | M        | teats very swollen, ORANGE still visible, but no milk. redusted with ORANGE |
| 323   | 1952         | P. californicus | 37  | ♂   | M        | scrotal Orange on mouth, limbs, tail & ears                                 |
| 324   | 0100         | M. californicus | 58  | ♀   | M        | pregnant. Forgot to look at toe-clip #                                      |
| N 325 | 0400         | M. californicus | 20  | ♀   | Imm      | nullip.                                                                     |
| 327   | 04310        | P. boylii       | 25  | ♂   | late SAD | scrotal                                                                     |
| 328   | 1953         | N. fuscipes     |     |     | M        |                                                                             |
| 329   | 0320         | Microtus        | 18  | ♂   | Imm      | TND                                                                         |
| 330   | 0330         | "               | 17  | ♀   | Imm      | nullip.                                                                     |

Results on GRID MC:

|     |     |       |                 |    |   |     |                                                                                     |
|-----|-----|-------|-----------------|----|---|-----|-------------------------------------------------------------------------------------|
| ✓ N | 9,9 | 01130 | P. truei        | 22 | ♀ | Imm | nullip (all gray color)                                                             |
|     | 9,9 | 0410  | P. truei        | 18 | ♂ | SAD | TND                                                                                 |
|     | 9,9 | 1943  | P. californicus | 47 | ♀ | M   | teat swollen, no milk. DUSTED NEW RED. 2 escaped under Buckley west (2m) of station |

Finished 2230 hrs & headed home.

Nov. 24 0700 hrs - out checking traps. It's clear & cool (40's)

Results on grid MC:

| St.  | #    | Spp.            | Wt. | Sex | Age | Repr.                                            |
|------|------|-----------------|-----|-----|-----|--------------------------------------------------|
| 9,9  | 0410 | P. truei        | 19  | ♂   | SAD | TND                                              |
| 9,10 | 1943 | P. californicus |     |     |     | Defunct lactating. Escaped to hole above midden. |

|     |      |       |          |    |   |     |      |
|-----|------|-------|----------|----|---|-----|------|
| ✓ N | 9,13 | 01140 | P. truei | 17 | ♂ | Imm | TND. |
|-----|------|-------|----------|----|---|-----|------|

Transect east of RC Results:

|         |              |                 |      |   |           |           |
|---------|--------------|-----------------|------|---|-----------|-----------|
| 321     | 04230        | P. boylii       | 19.5 | ♀ | Imm       | nullip    |
| 322     | 03410        | P. boylii       | 21   | ♂ | M         | scrotal   |
| 323     | 1931<br>1979 | P. californicus |      |   |           | lactating |
| 325     | 0240         | Microtus        |      | ♀ | Imm       | nullip.   |
| 327     | 04140        | P. boylii       | 19   | ♂ | Imm       | TND       |
| N 328   | 1953         | N. fuscipes     |      |   | M         |           |
| 329     | 0410         | Microtus        | 18   | ♂ | Imm       | TND       |
| ✓ N 330 | 04430        | P. boylii       | 15   | ♀ | early SAD | nullip    |





RIBBLE, DO.  
1987

Journal

69

Hastings Reservation, Monterey Co., Calif.

Nov. 24 (Sat) Results on GRID RC

| st. | #    | SPP  | Wt.                    | Sex  | Age | Brd                                      |
|-----|------|------|------------------------|------|-----|------------------------------------------|
| ✓ N | 6,14 | 0310 | <i>P. maniculatus</i>  | 14   | ♀   | SAD nullip.                              |
|     | 6,14 | 1955 | <i>P. californicus</i> | 31.5 | ♂   | late SAD TND. almost all brown as adult. |
|     | 5,14 | 045  | <i>Microtus</i>        | 57   | ♀   | M heat swollen, lactating?               |
|     | 5,14 | 010  | <i>Perognathus</i>     | 25   | ♂   | M TND                                    |

Finished checking traps by 0915 hrs. I returned *P. californicus* #1983 with in my pocket because he was still very sluggish. I will release him this afternoon. Spent most of the day cleaning the cabin in prep. for Turkey Day. Reset traps on RC-1 drift fences, transect east of grid, and same stations on grid from 1550 to 1615 hrs. Released #1983 in good shape. Reset MC drift fences & closed all grid traps from 1630 to 1700 hrs. A thin layer of clouds moved in this afternoon, cooling the temp into low 70's. By 1730 hrs low clouds moved in from the north & the west.

2120 hrs - out checking traps on RC-1. It's partly cloudy & breezy.

Results on Transect east of RC:

| st. | #     | SPP.               | Wt.   | Sex | Age | Brdg        |
|-----|-------|--------------------|-------|-----|-----|-------------|
| 321 | 0230  | <i>Perognathus</i> | 21.5  | ♀   | M   | imp. parous |
| 322 | 0100  | <i>Microtus</i>    | RECAP |     |     |             |
| 325 | 04400 | <i>P. boylii</i>   | RECAP |     |     |             |
| 327 | 04220 | "                  | "     |     |     |             |
| 330 | 0330  | <i>Microtus</i>    | RECAP |     |     | Imm.        |

GRID RESULTS.

5,14 03430 *P. boylii* 30g ♀ M lactating?

6,14 0310 *P. maniculatus* RECAP

5,15 1079 *P. californicus* 50g ♀ M heat's swollen (no milk), Dusted RECD. probably pregnant. Escaped to West

Finished by 2200 hrs and headed home.

Nov 25 0700 hrs - out checking traps. It's clear, calm, and cool (mid 40's).





RIBBLE, D.O.  
1987

Journal

69

Hastings Reservation, Monterey Co., Calif.

Nov 25 (cont)

Results on transect east of RC:

St # Spp. Wt Sex Age Rtg

322 0230 Perognathus 22g RECAP

W 323 1103 N. fuscipes 215g ♀ M unsp. nalliparous.

324 1931 1979 P. californicus RECAP. Redusted w/ ORANGE powder.

325 0404 P. boylii 22 ♂ SDD scrotal

327 04310 P. boylii RECAP scrotal

GRID TRAP

6,14 1944 P. californicus 39g ♂ M scrotal. Some RED on ears & mouth, but not obvious.

6,14 0310 P. maniculatus RECAP

5,14 03430 P. boylii RECAP August

Finished checking traps by 0845hrs & returned to lab to stuff snakes.

Picked up all the traps on the transect east of RC-1. Spent the

rest of the morning in the lab preparing previously frozen

specimens. Spent the afternoon cleaning the cabin in prep for

Turkey Day. Reset only drift fences on RC & MC grids from

1100 to 1700 hrs. Today was clear, breezy at times, low 70's.

Nov. 26 Happy Thanksgiving! 0700hrs - out to check drift fences. It's clear, calm,

and cool (low 40's). Checked all traps, closed them, left traps

blocking passage ways, and covered pit falls. Finished by

0930hrs and returned to stuff mortalities. I'm taking the

next few days off for Thanksgiving.

Nov. 28. This afternoon Marco & I <sup>set all</sup> ~~reset~~ traps on GRID RC, <sup>RC</sup> and drift fences,

and MC drift fences, and the top 2 rows of traps on MC.

We finished by 1645hrs. Today was mostly clear; calm,

temp in ~~to~~ mid 70's.

11



RIBBLE, D.D.  
1967

Journal

70

Hastings Reservation, Monterey Co., Calif.

Nov 28 (cont) 2120 hrs - out checking grid traps only on MC & RC-1. It's clearing, moon is  $\frac{1}{2}$  full about 1:00 in west sky.

On MC-1, Station 9, 10; caught #1943 ♀ lactating, 49g. We put a radio-collar on her. These are <sup>the</sup> new radio-collars with wire collars (see Spp Acct).

Ch #11. Finished checking <sup>MC</sup> ~~RC~~ by 2200 hrs & RC by 2300 hrs.

Not much activity on RC tonight.

Nov 29 0700 hrs. Out checking traps. It's overcast, calm, upper 40's.

Results on MC traps.

1971 *P. californicus* 36.5 ♂ in PND 9.6

New 1104 *P. californicus* 31.0 ♀ sad nullip <sup>st.</sup> 10.7 Returned to lab for tissues.

Finished checking all traps by 0930 hrs this morning. The sun burned off the clouds by 0930. Returned new *P. californicus* #1104's

#1106 to lab to collect tissues. Summary of <sup>results on RC (grid only)</sup> ~~of~~

|                        | 28 Nov. Pm  | 29 Nov (am)        | # individuals  |
|------------------------|-------------|--------------------|----------------|
| <i>P. californicus</i> | 3 captures  | 8 captures (1 new) | 8              |
| <i>P. boylii</i>       | 5 " (1 new) | 10 "               | 12             |
| <i>Microtus</i>        | 2 (1 new)   | 3 "                | 4              |
| <i>Perognathus</i>     | 2           | 1                  | 2              |
| <i>Z. megalotis</i>    | 0           | 1                  | 1              |
| <i>S. traudugie</i>    | 1 (1 new)   | 1                  | 2              |
| <i>P. maniculatus</i>  | 1           | 1                  | 1              |
| <i>N. fuscipes</i>     | 0           | 3 (2 new)          | 3              |
|                        | 16 captures | 29 captures        | 33 individuals |

In the afternoon Marco & I finished painting the east drift fence on RC. The color is a light tan. We reset traps on RC from 1530 to 1600 hrs, and drift fence of MC & 2 top rows on grid MC from 1600 to 1630 hrs. We also got a radio-location on 1943 (see spp acct). This afternoon was clear and warm.





KIBBLE, D.O.  
1987

Journal

71

Hastings Reservation, Monterey Co., Calif.

Nov. 29 (cont) 21<sup>20</sup>00hrs - out checking traps on RC. It's clear, calm, moon is  $< \frac{1}{2}$  full and overhead. - very bright! Finished by 2200hrs - Note that #1944 was caught with Red powder around mouth, on ears, feet, tail, and back.

On GRID MC-1, there was only 1 <sup>(P. truei)</sup> capture and no P. californicus. We got the radio-signal from #1943 in the same area as this afternoon - ~~just~~ southeast of station 9, 11. The signal frequency indicated she was moving around 50m. Finished on MC by 2240hrs and returned home.

Nov. 30 0700hrs - out checking traps on MC. It's partly overcast & cool. On Grid MC, caught #1941 ♂, mature, TWD, 37g at station 9, 9. We put a radio-collar on him & released (Ch # 3).

Finished checking traps on RC by 0930hrs and returned to lab. Around 1100hrs it started to sprinkle and continued through the day. Summary of results on RC:

|                        | 29 (PM)    | 30 (AM)     | # individuals |
|------------------------|------------|-------------|---------------|
| <u>P. californicus</u> | 4 captures | 5 captures  | 6             |
| <u>P. boylii</u>       | 5 "        | 7 " (1 new) | 8             |
| <u>Microtus</u>        | 4 "        | 3 "         | 6             |
| <u>Perognathus</u>     | 2          | 2 "         | 3             |
| <u>Sorex</u>           | 0          | 2 " (Dead)  | 2             |
| <u>P. maniculatus</u>  | 1 "        | 1 "         | 1             |
| <u>Neotoma</u>         | 0 "        | 4           | 4             |
| TOTAL                  | 16         | 24          | 30            |

The rain stopped this afternoon around 1500hrs. We reset traps on RC from 1100 to 1130hrs, and MC drift fences around 1700hrs. Marco was going to get radio-locations on 1943 & 1941, but something was wrong with the cable & no signal was received. Returned to fix this for tonight.





RIBBLE, D.D.  
1987

Journal

72

Hastings Reservation, Monterey Co., Calif.

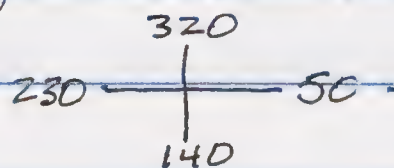
Nov. 30 (cont) 2145hrs - out checking traps on RC. It's overcast, but the moon ( $\approx \frac{3}{4}$ ) is visible overhead and it is quite bright. Not many animals captured, so we finished in  $\approx 30$  min. Proceeded to MC to get radio-locations (see spp. acct)

Dec 1. 0700hrs - out checking traps on RC. It's raining lightly, temp in low 50's. The rain continued while we checked traps. Finished by 0900hrs and I returned to lab to stuff Neotoma mortality and Marco went out to radio-track 1943 & 1941 - disaster (see spp. acct). Summary of results on grid RC:

|                        | 30 (4PM)   | 1 (1AM)                     | # individuals |
|------------------------|------------|-----------------------------|---------------|
| <u>P. californicus</u> | 3 captures | 7 captures                  | 7             |
| <u>P. boylii</u>       | 3 "        | 7 " ( <del>captures</del> ) | 7             |
| <u>Microtus</u>        | 2 "        | 2 "                         | 4             |
| <u>Perognathus</u>     | 2 "        | 2 "                         | 2             |
| <u>Z. megalotis</u>    | 0          | 1                           | 1             |
| <u>Sorex</u>           | 1 "        | 0                           | 1             |
| <u>P. maniculatus</u>  | 1          | 1                           | 1             |
| <u>N. fuscipes</u>     | 0          | 2 (mortality)               | 2             |
| Total                  | 12         | 22                          | 25            |

We went into town around noon and returned by 1300hrs.

In the afternoon we began setting up a grid in West Ravine. The angles on the grid are as follows:



We zig-zagged up the canyon, finishing about 12 stations. Reset RC traps from 1545 to 1630hrs, and reset MC drift lines and the top two rows on ~~the~~ grid MC (see spp. acct) from 1630 to 1700hrs. This afternoon was partly cloudy and warm.





Hastings Reservation, Monterey Co., Calif.

Dec 1 (cont). 2140hrs - out checking traps on RC. It's mostly clear, 50's, moon is  $\frac{3}{4}$  full and very bright. Finished by 2230hrs - not much activity, probably due to moon. We next checked grid traps on MC, but ~~was~~ no *P. californicus* were captured. Returned home by 2300hrs.

Dec 2 0700hrs - out checking traps on MC. It's clear (with clouds to west), calm, low 50's. Nothing caught (eg 1441 or 1443) on MC grid traps. There were very few captures on grid ~~MC~~ RC this am. Finished checking traps by 0830hrs and we proceeded to West Ravine to work on the grid. (WR) We finished staking out a total of 62 stations by noon. (See map on next page of grid.)

Summary of trapping results on grid RC:

|                               | 01 (pm)    | 2 (am)         | # individuals |
|-------------------------------|------------|----------------|---------------|
| <u><i>P. californicus</i></u> | 2 captures | 2 captures     | 3             |
| <u><i>P. boylii</i></u>       | 2 "        | 6 "            | 7             |
| <u><i>M. ericetus</i></u>     | 2 "        | 3 "            | 4             |
| <u><i>Perognathus</i></u>     | 2 "        | 2 "            | 2             |
| <u><i>P. maniculatus</i></u>  | 1 "        | 0              | 1             |
| <u><i>N. fuscipes</i></u>     | 0          | 1 (new animal) | 1             |
| <u>TOTAL</u>                  | 9 captures | 14 captures    | 18 captures.  |

This was the lowest number of captures this week, presumably due to the very bright moon.

The afternoon was partly cloudy, temp in low 70's. We reset all traps on GRID RC & RC drift fences from 1545 to 1630 hrs. Immature *Neotoma* was caught at 7.12 and released untagged. <sup>See spp acct. for radio-location of #1079.</sup> ~~The drift fences on MC~~

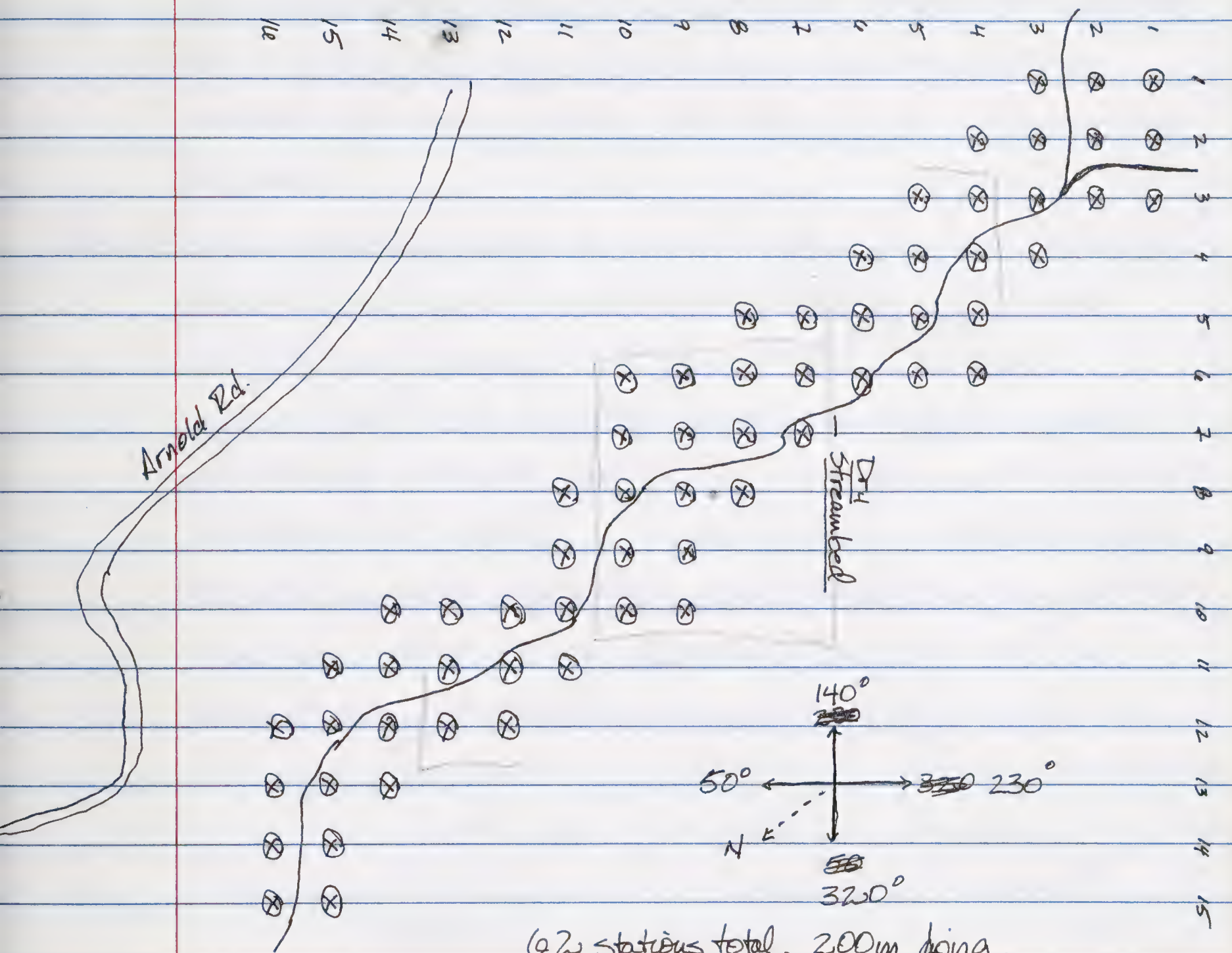
The drift fences on MC & top 2 rows on the grid were reset around 1700hrs.





Hastings Natural History Reservation, Monterey Co., Calif.

Dec 2 (cont) Map of Grid WR, located in West Ravine off of rd. to Arnold



62 stations total. 200m long.

Habitat: Oak-Bay tree woodland with  
Madroves, (a lot of) poison oak, and Ribes.





RIBBLE, D.O.  
1987

Journal

75

Hastings Reservation, Monterey Co., Calif.

Dec 2 (cont) 2145hrs - out checking traps on RC. It's clear & very bright - moon is  $> 3/4$  full and directly overhead. Finished RC by 2230hrs and proceeded to MC to check grid traps. At station 10, 11; caught #1941 ♂ and removed malfunctioning radio-collar. (See spec act). Returned home by 2300hrs.

Dec 3 0700hrs - out checking traps on MC. It's clear, and cool (upper 40's). On the grid we caught a new subadult *P. californicus* (#1111) and one of the young animals (#1110) from ♀ 1943. Both animals were returned to lab to collect tissues. (See spec act) On RC, we removed the collar off of #1079 just in time - another animal had almost chewed the wire collar off. Finished checking traps by 0900hrs. We also removed a *M. californicus* (#0130) from the west RC drift fence that had been burrowing under it. Marco released him at the "first crossing" along Big Creek.

| Summary of <sup>RC</sup> trap results: | 2 (Pm)      | 3 (Am)      | # individuals |
|----------------------------------------|-------------|-------------|---------------|
| <i>P. californicus</i>                 | 1 capture   | 4 captures  | 5             |
| <i>P. boylii</i>                       | 5 " (1 new) | 7 " (1 new) | 9             |
| <i>Microtus</i>                        | 2 "         | 1 "         | 3             |
| <i>Perognathus</i>                     | 3 "         | 2 "         | 3             |
| <i>R. megalotis</i>                    | 1 "         | 0           | 1             |
| <hr/>                                  |             |             |               |
| Total                                  | 12 "        | 14          | 21 ind.       |

Returned to lab to bleed new animals & stuff Sorex. I spent most of the ~~morning~~ <sup>afternoon</sup> working on a seminar talk for Saturday. The afternoon was clear, sunny, and warm. We reset all traps on RC, MC drift fence, and 2 top rows on MC from 1545 to 1630hrs.





RITSBLE, D.O.  
1987

Journal

76

Hastings Reservation, Monterey Co., Calif.

Dec 3 (Sat) 21<sup>30</sup>hrs - out checking traps on RC. It's mostly clear, the moon is almost full - very bright. Marco & I both need to get back to Berkeley early tomorrow, so we are going to pick up all the traps on RC tonight. We will check the drift fences as usual tomorrow am. Finished checking & picking up traps on RC by 2230hrs. Summary of Results:

P. californicus: 4 captures

P. boylii: 9 "

Microtus: 3 "

Perognathus: 3 "

Neotoma: 3 "

Total: 22 captures

Proceeded to check grid traps on MC & caught #1943♀ with very badly chewed radio-collar (see spp acct). Returned home by 2300hrs.

Dec 4 0700hrs - out checking drift fences. It is overcast and threatening to rain. We finished checking traps by 0900hrs. All pit cans were covered and traps were left blocking passageways in drift fences. Returned to lab to drift sewer mortality. Left Hastings for Berkeley around 1000hrs in a hoary drizzle.

Dec 7 Arrived back down at Hastings around 1430hrs. It ~~is~~ was clear & calm, upper 60's. It obviously rained hard over the weekend and the ground is very soft. I set out for Madrone Canyon around 1500hrs and came across 2 Lynx rufus in front of the cabin! Got within 3m of ~~as~~ the smaller, younger of the two - fantastic. Finished resetting MC drift fences at 1600hrs & RC drift fences by 1700hrs.





RIBBLE, D.O.  
1987

Journal

77

Hastings Reservation, Monterey Co., Calif.

Dec 7 (cont.) I had intended to set traps on the new grid in West Ravine (WR) this afternoon, but due to my late arrival it wasn't possible. When returning to Lab I came across a group of 10-12 does "prolicking" on the slope north of the road to the Lab (200m west of Lab). 2 of the younger does were running circles around the group, <sup>and</sup> jumping & kicking in the air. According to J. Griffin, these bouts of play behavior sometimes lead to aggressive encounters between older & younger does.

The moon (3/4 full) rose around 2000hrs with clear, cold (40's) skies.

Dec 8 0700hrs - out checking traps - it's overcast, raining, temp in 40's. Finished checking traps by 0810hrs, still raining lightly. Returned home to work on data analyses. By noon the rain stopped, but skies were overcast all day. From 1400 to 1615hrs I set traps on grid WR (new grid in West Ravine). I covered most traps with balsa wood slats I got from Bob Jones. Since I didn't have enough to cover all traps, some stations (~15) were set with both traps next to one another and covered with 1 slat only. Reset drift line fences from 1630 to 1715 hrs.

Clouds cleared after sunset tonight and moon rose around ~~20~~ 2015 hrs.

Dec 9 0630hrs - out checking traps. It's still dark this early and overcast. The clouds burned off with the sun this am. I bled four *P. californicus* from WR at my truck, and returned them to their capture location.

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Hastings Reservation, Monterey Co., Calif.

Dec. 9<sup>th</sup> (Mon) All were released in good shape. Returned to lab by 1030hrs to spin blood and stuff Scapanus collected on drift fence.

Summary of <sup>WTZ</sup> trap results:

|                        |   |                    |
|------------------------|---|--------------------|
| <u>P. californicus</u> | : | 5 captures (4 new) |
| <u>P. boylii</u>       | : | 3 captures (2 new) |
| <u>P. truei</u>        | : | 3 " (3 ")          |
| <u>Perognathus</u>     | : | 5 " (2 ")          |
| <u>N. fuscipes</u>     | : | 2 " (2 ")          |

Sunshine lasted until noon when clouds moved in from the west. I reset traps on Grid WTZ from 1515 to 1600hrs, and the drift fences from 1615 to 1700hrs. Skies remained overcast this afternoon with brief periods of drizzle.

2130hrs - out checking traps on Grid WTZ. Skies are mostly overcast and ground is very wet. Moments after I started it began to drizzle, shortly thereafter I saw a Lynx rufus on the bank above station 16,14. It wasn't startled by my presence and spent 10min grooming until I moved on. Finished checking traps by 2330 hrs, and returned to lab to spin blood from 3 P. californicus collected tonight.

Dec 10<sup>th</sup> 0700hrs - out checking traps. It's clear, cool (upper 40s), and very damp. Caught a new P. californicus on the drift fence. Not many captures on Grid WTZ this AM. Finished checking all traps by 0900hrs. Returned to lab to bleed animals. Summary of results on Grid WTZ:

|                        | 9 (PM)              | 10 (AM)        | # individuals |
|------------------------|---------------------|----------------|---------------|
| <u>P. californicus</u> | 10 captures (3 new) | 3 capt (1 new) | 7             |
| <u>Perognathus</u>     | 4 "                 | 2 "            | 5             |
| <u>N. fuscipes</u>     | 3 " (1 new)         | 1 " (new)      | 4             |
| <u>P. truei</u>        | 1 "                 | 1 "            | 1             |
| <u>P. boylii</u>       | 0                   | 0              | 0             |
| TOTAL                  | 14                  | 7              | 17            |

Obviously, most animals are active prior to sunrise.

22



Hastings Reservation, Monterey Co., Calif.

Dec 10 (Sat). I set traps on RC's MC drift fences from 1415 to 1500 hrs, and Grid WR from 1515 to 1600 hrs. I set traps a bit earlier to day because I wanted to look for a lost Pesola scale (which turned up in my truck). Found F. concolor tracks on Grid WR around station 6, 5. I also brought home a tiny Microtus that was on its back in the bottom of a pit can on the east drift fence of RC. It only weighs 10g and was barely alive when found. <sup>Might belong to ♀ 0100 from this area.</sup> This afternoon was mostly clear, with some clouds moving in around sunset.

2200 hrs - out checking traps on WR. It's calm, cloudy, very dark. I'll be picking up traps as I check the grid. The fog rolled in shortly after I started. Caught # 1958 ♂ (scrotal) at station 15, 12 covered with RED powder (from ♀ # 1957). I don't have blood from him, so I'll take him back to bleed tonight and release him tomorrow am. Finished checking traps by 2345 hrs and headed back to lab.

Dec 11. 0700 hrs - out checking traps on drift fences. It's overcast and foggy. Note caught P. maniculatus on MC drift fence (mortality) - all 4 from 1500 hrs caught in madness! Closed all traps on drift fences and left them blocking the passageways - also covered all pit cans. Finished checking traps by 0830 and returned to prepare Sorex mortality. Left for Berkeley at 1030 hrs.

Dec 15. Arrived back at Hastings around 1300 hrs. It's cloudy, raining, windy, and cool (40's). According to Connie Adams, the past few nights have dipped down in the 20's. If this weather continues, it could snow!





RIBBLE  
D.O.  
1907

JOURNAL

80

Hastings Reservation, Monterey Co, Calif.

Dec. 15 (cont). I began <sup>setting</sup> ~~setting~~ traps on MC-1 at 1430 hrs. I placed a wadded up paper towel for nesting material in every trap, and every folding Sherman was either placed in a dry spot next to a tree or covered with a slab of balsa wood. A few stations (~10) were set with both traps side by side, covered with a single wood slab. This took longer than usual, finishing by 1715 hrs. Due to darkness, I didn't set the 4 stations on row 11, and I didn't set any drift fence traps.

2120 hrs - out checking traps on MC. It's windy (gusts up to 40 mph), cold (lower 40's), and <sup>snowing</sup> ~~sleet~~ / raining. Generally sleety!

Only caught 3 animals. so I finished checking traps by 2215 hrs

Dec. 16. 0715 hrs - out checking traps on MC. Weather isn't changed from last night - windy, rainy, cold. Finished checking traps by 0830 hrs. Capture totals: *P. boylii* - 4 (3 new); *P. californicus* - 1; *Scor. townsendii* - 1 new; Total of 6 animals. I'm missing 4 folding Shermans from grid WR, so I went to go check for them found 2 of them at station 4, 6 with 2 mortalities (*P. boylii* & *D. fuscipes*). Found the other two traps at 5, 6; which had never been set. Returned to lab to stuff these mortalities from grid WR. It continued to rain off-and-on throughout the am into the afternoon. From 1430 to 1700 hrs I set traps on RC & MC drift fences, and reset traps on grid MC. I put paper towels in all drift fence traps. Caught 2 small *Eusagina* in covered pit-fall traps. I released them <sup>unmarked</sup> on the opposite side of the fence. It rained lightly all afternoon.





RIBBLE, D.D.  
1987

Journal

81

Hastings Reservation, Monterey Co., Calif.

Dec 16 (cont) 2130 hrs - out checking traps on MC. It's cloudy and cold (low 40's).

Caught #1943 ♀ at station 10, 15 and dusted her with Red Powder.

Also caught 2 new P. californicus which I returned to the lab to bleed in the AM. Finished by 2230 hrs. Much better

results this PM - The clouds were beginning to clear when I returned.

Dec 17. 0720 - out checking traps. It's clear, calm, and cold (heavy frost on cars).

Caught a new immature P. californicus at st. 9, 10 which looks like it has Red Powder on its feet. Returned it to lab to bleed.

Finished checking all traps by 0930 hrs and returned to lab to bleed P. californicus.

Summary of results this am. P. californicus - 2 captures (1 new)

P. boylii - 4 captures (1 new)

A. fuscipes - 1 "

R. megalotis - 1 " (new)

160 (PM)

4 (2 new)

TOTAL - 8 captures

I returned all 3 animals to their capture sites before noon.

I reset traps on MC this afternoon from 1500 + 1600 hrs,

and reset RC drift fence traps around 1630 hrs. This

afternoon was mostly clear (a few clouds) and warm 70's

2115 hrs - out checking traps on MC. It's clear and cold (low 40's).

The moon isn't out and the stars are incredible.

Finished checking all traps by 2215 hrs and headed home

Dec 18. 0700 hrs - out checking traps on MC. It's clear, calm, and cold (30's). The moon is about 10 o'clock in eastern skies

and is just a sliver. Finished checking traps by 0900 hrs and returned to lab to bleed new P. californicus #1133. Examined her in

the dark and she is covered with RED powder (ears, mouth, limbs, body). She is undoubtedly from #1943's litter.

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Hastings Reservation, Monterey Co., California

| Dec 18 (cont). Summary of trap results: |                        | 18 (am)                  | 17 (pm)          | # individuals |
|-----------------------------------------|------------------------|--------------------------|------------------|---------------|
|                                         |                        | 3 captures (1 new)       | 3 capt           | 6             |
|                                         | <u>P. californicus</u> |                          |                  |               |
|                                         | <u>P. boylii</u>       | 5 <del>8</del> " (1 new) | 3 <del>5</del> " | 6             |
|                                         | <u>P. truei</u>        | 1 "                      | 2 " (1 new)      | 2             |
|                                         | <u>N. fuscipes</u>     | 2 " (1 new)              | 2 "              | 3             |
|                                         | TOTAL                  | 11 captures              | 10 captures      | 17 Ind.       |

Returned # 1133 to capture site this am and worked on paperwork the rest of the morning. This afternoon I set out 5 trap station (2 traps per) east of grid RC and 5 stations on the grid to assess reproductive condition of females. Reset RC drift fences around 1500 hrs and MC traps from 1530 to 1630 hrs. Today was sunny and warm. Around 1600 hrs the fog rolled in from the west.

2140 hrs - out checking traps on Grid RC. It's overcast and warmer than previous nights. Since it is so warm and there are no lactating Q's on MC, all wait until tomorrow am to check those.

Transect east of RC Results

| Trap #  | ID no | SP                     | wt | Sex | Age | Reprod                             |
|---------|-------|------------------------|----|-----|-----|------------------------------------|
| 278     | 0100  | <u>Microtus</u>        | 59 | ♀   | M   | post-lactating<br>defecate, pinous |
| * N 274 | 1135  | <u>P. californicus</u> | 20 | ♀   | Imm | nullip. No visible powder on anal. |
| 272     | 0410  | <u>Microtus</u>        | 34 | ♂   | SAD | TRD.                               |

Results on trap grid RC:

|     |      |      |                        |     |   |      |                                         |
|-----|------|------|------------------------|-----|---|------|-----------------------------------------|
| * N | 0,14 | 1136 | <u>P. californicus</u> | 22g | ♀ | Imm. | nullip. Faint Red on inside of ear only |
|     | 5,14 | 0415 | <u>Microtus</u>        | 58g | ♀ | M    | Perforate<br>pinous.                    |
| * N | 5,14 | 1137 | <u>P. californicus</u> | 22g | ♀ | Imm. | nullip. Definite Red on inside of ear.  |

The starved animals (new P. californicus) were returned to lab to bleed tomorrow am. Great results! Finished by 2215 hrs and loaded home





RUBBLE, D.D.  
1987

JOURNAL

83

Hastings Reservation, Monterey Co., Calif.

Dec. 19 0700 hrs - out checking traps on MC. It's foggy and overcast, temp in 40's.

Results on Transect east of Grid RC:

St. # Spp. Sex Age Bldg.

280 04400 P. boylii 25g ♀ SAD imp, nullip

N 276 0130 P. boylii 19g ♂ early SAD TND (close)

273 Did not tag N. fuscipes M

Results on Grid RC:

N 5,13 1139 P. californicus 23g ♂ Imm TND. (returned to lab). Covered with Red Powder. Caught at base of old salix trunk where #1079 ♀ was nesting.

5,13 04410 P. boylii 22.5 ♂ SAD scrotal.

Finished checking all traps by 09:15 & returned to lab to bleed animals.

Summary of trap results on MC:

|                        |                    |
|------------------------|--------------------|
| <u>P. californicus</u> | 5 captures         |
| <u>P. boylii</u>       | 2 captures (2 new) |
| <u>P. truei</u>        | 3 captures         |
| <u>N. fuscipes</u>     | 3 captures         |

TOTAL 13 captures

I returned all 5 P. californicus to their capture locations and released them this am. The sun burned the clouds off early leaving clear skies this am.

Reset all traps on Grid MC & MC drift fences from 1530 to 1630 hrs, and RC drift fences, transect east, and grid traps from 1630 to 1700 hrs. Tonight was clear and cool with almost no moon.

Dec 20 0710 hrs - out to check traps it's clear and cold.

Results on transect east of RC:

St. # Spp. Wt Sex Age Bldg

N 280 1140 P. californicus 21.5 ♀ Imm nullip. Returned to lab to bleed

279 0100 Microtus RECAP

278 1931 1979 P. californicus 41 ♀ M lactating. Lost 1/2 of tail recently. Dusted w/ ORANGE.

276 04040 P. boylii 24 ♂ M scrotal. Missing 1/2 of tail.

273 1135 P. californicus RECAP Eye fine.





RIDDLE, D.O.  
1987

Journal - ~~CHABOT~~

84

Hastings Reservation, Monterey Co., Calif.

Dec 20 (cont). Transect east of RC (cont)

272 0410 Microtus RECAPTURE

271 0120 Microtus 52.5g ♂ Mature. Scrotal

Results on GRID RC:

6,14 1079 P. californicus 47.5g ♀ M. <sup>post-lactating.</sup> <sup>perforate.</sup> maybe pregnant. Dusted NEW RED

5,14 1137 P. californicus RECAP. Eye line.

On grid MC, caught #1943 at 9,10 and she was definitely lactating. Dusted her with NEW RED and she escaped into hole above 9,10.

I picked up all traps on MC as I checked, so I didn't finish checking all traps until almost 1100hrs. I returned to lab to bleed the following animals: #1140<sup>immature</sup> (new animal from east of RC), #1941 (♂ from MC which I tagged the left ear #1141, used blood for prolactin project - 2nd sample), and #1100 (scrotal ♂ from MC that I can't find record for in spp acct. (??)).

~~Returned a~~ Summary of capture results on MC:

|                        |                         |
|------------------------|-------------------------|
| <u>P. californicus</u> | : 8 captures            |
| <u>P. boylii</u>       | : 5 captures<br>(1 new) |
| <u>P. truei</u>        | : 4 captures<br>(2 new) |
| <u>N. fuscipes</u>     | : 1 capture             |
| <u>TOTAL</u>           | : <u>18 captures</u>    |

Note that on the west RC drift fence 11 animals were captured which is  $\frac{1}{4}$  % trap success. This is way over 50% and extra traps should be added to this fence if this trend continues. Looked at 1941 in the dark and he <sup>had what</sup> ~~was too~~ appeared to be fresh powder around his mouth and on limbs. Returned all animals bled to their capture sites before noon. Spent most of the afternoon riding horses with Mark and Shorty at Noyes. Wonderful.





Hastings Reservation, Monterey Co., Calif.

Dec 20 (cont) Reset RC drift lines, transect east of RC, RC grid traps, and MC drift lines from 1600 to 1700 hrs. Found a young *Microtus* dead in a pitfall can on RC drift fence that had been scavenged by beetles (Cat No. 814). Apparently it fell in sometime today.

2140 hrs - out checking traps on RC. <sup>(not drift lines)</sup> It's clear, calm, and cold. I will pick-up and be close all traps I check tonight.

Results on transect east of RC:

279 Did not TAG *N. fuscipes* Imm.

278 1140 *P. californicus* RECAP. \*Cared with Orange Powder. Mouth, head, ears, feet, tail, belly.

276 Did not TAG *N. fuscipes* Mature.

271 0320 *Microtus* RECAP

Results on 19210

5, 14 ~~1037~~ <sup>11</sup> *P. californicus* RECAP. \*Cared with Red Powder (all over).

(checked the base of the <sup>salit</sup> tree entrance south of 5, 13 where #1079 was radio-tracked, and there were grains of Red Powder on blades of grass at the entrance).

Finished by 2210 hrs and headed home.

Dec 21 0700 hrs - out checking drift fences on 7C and MC. It's clear, calm, temp in upper 30's. Finished checking all traps by 0900 hrs. I cleaned out all drift fence traps as I checked them, leaving them dismantled with drift fence passageways left open. Returned to Lab to prepare Sorex mortality and pack up for Christmas Break. Left Hastings for Berkeley around noon.





# Grid Data 1987





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1987

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

Feb 1-2

GRID MC-1: P. californicus ONLY

PCMC14H-

Feb. 2 (Am)

Feb. 1 (Pm)

Feb. 1 (Am)

| Species                | No.  | Wt. | Sex | Age               | Brdg              | Occ                   | 1 | 2    | 3        | 4 | Comments                                            |
|------------------------|------|-----|-----|-------------------|-------------------|-----------------------|---|------|----------|---|-----------------------------------------------------|
| <u>P. californicus</u> | 740  | 43  | ♂   | (Sub) juv - close |                   | 9, 7                  |   |      |          |   | Coll. saliva & puma tissue                          |
| N                      | 1022 | 36  | ♂   | M - close         |                   | 9, 5                  |   |      |          |   | Saliva & puma - White tail tip                      |
| N                      | 1023 | 39  | ♂   | M                 | no                | 9, 5                  |   |      | 9, 5     |   | Saliva & puma - escaped to hole w/ station.         |
|                        | 1007 | 32  | ♂   | Early M           | no                | 10, 6                 |   |      | 10, 6    |   | " "                                                 |
|                        | 1991 | 46  | ♀   | M                 | Parous peribovate | 10, 8                 |   |      |          |   | " "                                                 |
| N                      | 1024 | 22  | ♂   | I                 | no                | 10, 10, 10, 10        |   |      | 9, 10    |   | " - escaped to NE, out of sight.                    |
|                        | 1934 | 47  | ♀   | M                 | imp. parous       | 10, 11, 9, 13         |   |      |          |   | " "                                                 |
|                        | 798  | 38  | ♂   | M                 | no                | 10, 12, 9, 12, 9, 12  |   |      | 9, 12    |   | " - glands erect.                                   |
|                        | 1018 | 33  | ♂   | Sub               | no                | 10, 14, 10, 14        |   |      |          |   | " } escaped under bush 3m below station             |
|                        | 1003 | 47  | ♀   | M                 | lactating         | 10, 14, 10, 14        |   |      |          |   | " "                                                 |
|                        | 1935 | 41  | ♂   | M                 | no                | 9, 13                 |   |      |          |   | " "                                                 |
|                        | 843  | 38  | ♂   | M                 | no                | 9, 12, 10, 12, 9, 13  |   |      | * 9, 13  |   | " # inserted w. green bag.                          |
|                        | 484  | 36  | ♀   | M                 | lactating         | 9, 10, 10, 11, 10, 10 |   |      | * 10, 10 |   | " - escaped whole-marked w/ bag * 2 - Not lactating |
|                        | 471  | 38  | ♂   | M                 | no                | 9, 10, 9, 10          |   |      |          |   | " }                                                 |
| N                      | 1025 | 36  | ♂   | M                 | no                | 8, 8, 8, 8            |   |      | 8, 8     |   | Didn't collect son P                                |
|                        | 1021 | 39  | ♀   | M                 | imp. subparous    | 7, 9, 8, 8, 8, 8      |   |      | 8, 8     |   | Saliva & puma                                       |
| N                      | 1026 | 40  | ♂   | M                 | if                | 7, 10                 |   |      | 6, 9     |   | Didn't collect son P                                |
|                        | 1995 | 36  | ♂   | M                 | scrotal           | 8, 13                 |   |      |          |   | escaped to stream bank. Tagged left ear # 1027.     |
| N                      | 1034 | 28  | ♀   | I                 | no                |                       |   | 7, 5 |          |   | White Tail Tip                                      |
| N                      | 1035 | 30  | ♂   | Sub               | NB                | 9, 7                  |   |      |          |   |                                                     |
|                        | 768  | 44  | ♂   | M                 | scrotal           |                       |   |      | 10, 11   |   |                                                     |

-41-9

0.10

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0.10

0.10 0.10



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Hastings Reservation, Monterey Co., Calif.

Feb 1-2

GRID MC-1: *P. boylii* only

| Species          | No.              | Wt.  | Sex | Age | Brdg        | Dec 1 | Feb 1 (AM) | Feb 1 (PM) | Feb 2 (AM) |   |
|------------------|------------------|------|-----|-----|-------------|-------|------------|------------|------------|---|
| <i>P. boylii</i> | 02010            | 22.5 | ♂   | M   | NO          | 7.5   | 7.5        | 7.5        | 7.5        | 4 |
|                  | 476              | 25   | ♂   | M   | NO          | 10.6  |            |            |            |   |
|                  | 0210             | 24   | ♀   | M   | imp. parous | 9.14  |            |            |            |   |
|                  | 02120            | 22   | ♂   | M   | kg          | 9.11  | 10.11      |            |            |   |
|                  | 741              | 22   | ♀   | M   | imp. parous | 7.10  | 7.10       | 7.9        |            |   |
|                  | 743              | 21   | ♂   | M   | NO          | 5.8   |            | 8.9        |            |   |
|                  | 2636             | 23   | ♂   | M   | N.B.        |       | 10.9       | 10.11      |            |   |
| N                | 01440            | 24   | ♀   | M   | imp. parous |       |            | 7.14       |            |   |
|                  | <del>01300</del> |      |     |     |             |       |            |            |            |   |
|                  | 01300            | 22   | ♂   | M   | N.B.        |       |            | 10.8       |            |   |
| N                | 02000            | 20   | ♂   | M   | N.B.        |       |            | 10.14      |            |   |
| N                | 02100            | 20   | ♀   | M   | imp. null   |       |            | 10.14      |            |   |

Pub. t.c. - rt ear w/ notch

Pub. t.c. - ear tag loss

ear tag lost, previously T.C.

W-01440  
03000  
02100  
02110





3

GRID MC-1 ~ Misc

420

400





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: Peromyscus Californicus ONLY

| Species         | No.  | Wt.  | Sex | Age       | Brdg                                                 | Dec 1 | 2    | 3    | 4    | 5     | 6    | Comments                                                                      |
|-----------------|------|------|-----|-----------|------------------------------------------------------|-------|------|------|------|-------|------|-------------------------------------------------------------------------------|
| P. californicus | 1025 | 37.5 | ♂   | M         | non descend. (lose)                                  | 9,7   | 7,10 | 9,7  | 9,7  | 9,7   | 9,7  |                                                                               |
|                 | 1021 | 39   | ♀   | M         | parous (w/old) perit. nipples swollen, not lactating | 9,7   | 9,8  |      | 9,7  |       |      | escaped into log                                                              |
| N               | 1038 | 50   | ♀   | M         | parous lactating                                     | 9,5   | 9,5  | 9,5  |      |       |      | escaped under buckage, 2m SW trans station, could not keep any young          |
|                 | 1022 | 36   | ♂   | M         | scrotal                                              | 9,5   | 9,5  | 9,5  |      |       |      | Escaped - has ear tag, mature. Escaped same place as 1038 - Dusted (ED)       |
|                 | 762  | 43   | ♂   | M         | scrotal                                              | 10,5  | 10,5 | 10,5 |      |       |      | 6 - Covered w/ Green Powder                                                   |
| N               | 1039 | 22   | ♀   | Imm       | mulliparous                                          | 9,13  |      |      |      | 10,5  | 10,6 |                                                                               |
|                 | 1934 | 48   | ♀   | M         | Parous Pregnant                                      | 9,13  | 9,13 | 8,13 | 9,13 | 9,13  | 9,13 | tagged left ear # 1040, 2 young palpable high in abdomen. Dusted (green on 2) |
| N               | 1041 | 19   | ♀   | Imm       | mullip                                               | 7,10  |      |      | 7,9  |       |      | escaped to stream-bank                                                        |
| N               | 1042 | 25   | ♂   | Sub       | Nb                                                   | 8,11  | 8,10 | 7,10 | 9,10 | 9,10  | 8,11 |                                                                               |
| N               | 1043 | 23   | ♂   | Imm       | Nb                                                   | 8,13  |      | 9,13 | 8,14 |       | 9,13 | white tail tip                                                                |
|                 | 1026 | 42   | ♂   | M         | TND. (lose)                                          | 8,13  |      |      |      |       |      |                                                                               |
| N               | 1046 | 25   | ♂   | early Sub | TND                                                  |       | 8,5  |      |      |       |      | escaped under buckage 4m W. of station                                        |
|                 | 1023 | 41   | ♂   | M         | scrotal                                              |       | 8,6  |      | 9,5  | 9,5   |      |                                                                               |
|                 | 1991 | 45   | ♀   | M         | imp. <del>late</del> parous                          |       | 9,7  | 10,7 |      |       | 10,7 | escaped 20' up into Bay Tree 4 - escaped to same place                        |
|                 | 1007 | 36   | ♂   | M         | TND close                                            |       | 9,6  |      | 9,6  | 10,7  | 9,6  | escaped to nest 1m, NE of station                                             |
|                 | 471  | 39   | ♂   | M         | scrotal                                              |       | 10,9 | 9,10 |      |       |      |                                                                               |
|                 | 768  | 45   | ♂   | M         | scrotal                                              |       | 9,14 |      |      |       |      | Dusted (orange) - escaped up to 10,14                                         |
|                 | 796  | 51   | ♀   | M         | lactating                                            |       |      | 10,6 |      | 10,10 |      | Dusted (green) 7.55 - Reddusped                                               |
| N               | 1074 | 11   | ♀   | Imm       | mulliparous                                          |       |      |      |      |       | 10,6 | Has green dust on ears. Tiny animal! Not biting white tail tip -              |
|                 | 1059 | 40   | ♂   | M         | scrotal                                              |       |      |      |      |       | 8,14 | Tagged 28 marks on Trans of B # 10!                                           |





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1987

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Hastings Reservation, Monterey Co., Calif.  
GRID ML-1: P. boylii ONLY

| Species          | No.   | Wt. | Sex | Age | Bridge          | Occ | March 26 (PM) | March 27 (AM) | March 27 (PM) | March 28 (AM) | March 28 (PM) | March 29 (AM) | Comments |
|------------------|-------|-----|-----|-----|-----------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|----------|
| <u>P. boylii</u> | 02010 | 26  | ♂   | M   | close, non-dog. |     | 7,5           | 7,5           | 7,5           | 8,5           |               | 6             |          |
|                  | 741   | 22  | ♀   | M   | imp, parous     |     | 5,9           | 6,8           | 5,9           | 5,7           |               | 5,7           |          |
|                  | 494   | 22  | ♂   | M   | TND             |     |               | 8,7           |               |               |               |               |          |
|                  | 01410 | 23  | ♂   | M   | TND             |     |               | 10,10         |               | 8,11          |               | 10,11         |          |
|                  | 02100 | 20  | ♀   | M   | imp, parous     |     |               |               | 10,14         |               | 9,14          | 9,14          |          |
|                  | 02000 | 20  | ♂   | M   | TND             |     |               |               | 9,14          | 9,14          |               | 9,14          |          |
| N 02110          | 18    |     | ♀   | M   | imp, parous     |     |               |               | 5,8           |               |               |               |          |
| N 02200          | 23    |     | ♂   | M   | TND, close      |     |               |               |               | 9,5           |               | 9,5           |          |
| N 02210          | 23    |     | ♀   | M   | imp, nullip.    |     |               |               |               | 7,8           |               |               |          |
|                  | 487   | 21  | ♂   | M   | TND             |     |               |               |               |               | 6,9           |               |          |





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1987

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3

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: Misc.

| Species                   | No.    | Wt. | Sex | Age     | Brdg             | Occ   | 1     | 2     | 3     | 4     | 5     | 6    | Comments                                      |
|---------------------------|--------|-----|-----|---------|------------------|-------|-------|-------|-------|-------|-------|------|-----------------------------------------------|
| <i>P. truei</i>           | 01300  | 26  | ♂   | M       | TND              | 10,10 | 10,10 | 10,10 | 10,10 | 10,9  | 10,5  |      | Rec'd t.c., ear tag 1055                      |
|                           | N 0120 | 22  | ♂   | M       | TND              | 10,11 |       |       |       | 10,9  |       |      |                                               |
|                           | 02120  | 20  | ♂   | early M | TND              | 10,12 |       |       |       |       |       |      |                                               |
|                           | 1037   | 23  | ♂   | M       | Scrotal          |       | 9,5   | 10,5  | 10,5  |       | 9,5   |      | Ear tag lost, previously t.c.                 |
|                           | 01110  | 25  | ♀   | M       | imp. parous      |       | 10,5  | 10,6  | 10,5  | 10,6  | 10,5  |      |                                               |
|                           | 0210   | 26  | ♀   | M       | imp. parous      |       | 10,8  | 10,9  | 10,12 | 10,10 | 10,9  |      |                                               |
|                           | 02220  | 20  | ♂   | early M | TND              |       | 10,11 | 10,11 | 10,11 | 10,11 | 10,14 |      | lt. ear lost also clipped at 0100 249         |
|                           | 01200  | 21  | ♂   | M       | TND (claw)       |       | 10,11 | 10,10 | 10,10 | 10,11 | 10,12 |      | Deteg before positive 10,5 - positive 10 made |
|                           | N 1065 | 22  | ♀   | M       | imp. nullip(?)   |       |       |       | 10,7  |       |       |      |                                               |
| <i>Pery. californicus</i> | N 0200 | 27  | ♂   | M       | post-scrat       |       |       |       | 6,5   |       | 6,5   |      |                                               |
| <i>P. maniculatus</i>     | N 0100 | 14  | ♂   | M       | TND              |       |       |       |       |       | 5,5   |      |                                               |
| <i>R. megaleotis</i>      | N 0200 | 8.5 | ♂   | M       | Scrotal          |       | 6,5   |       |       |       |       |      |                                               |
| <i>R. megaleotis</i>      | N 0100 | 9   | ♀   | M       | imp              | 5,12  |       |       |       |       |       |      |                                               |
|                           | N 0210 | 8   | ♂   | M       | Scrotal          |       |       |       |       |       | 6,5   |      |                                               |
| <i>N. fuscipes</i>        | 1019   |     |     |         |                  | 5,8   |       |       |       |       |       |      |                                               |
|                           | 1954   |     | ♀   | M       | post-nulliparous |       | 10,9  |       |       |       | 9,8   |      |                                               |
|                           | 1005   |     | ♀   | M       | imp. parous      |       | 10,14 |       |       | 10,14 |       |      |                                               |
|                           | N 1066 |     | ♀   | M       | imp. nullip(?)   |       |       |       |       | 10,14 | 10,14 |      |                                               |
|                           | 745    |     |     | M       |                  |       |       |       |       | 9,9   | 9,9   |      |                                               |
|                           | 1009   |     |     |         |                  |       |       |       |       |       | 10,14 |      |                                               |
|                           | N 1069 |     | ♂   | M       | Scrotal          |       |       |       |       |       |       | 6,12 |                                               |





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1987

Journal- Grid Data

Hastings Natural History Reservation, Monterey Co., Calif.

Grid MC-1: *Peromyscus californicus* only

| Species                | No.    | Wt   | Sex | Age | Brdg        | Occ  | 1     | 2    | 3    | 4    | 5 | 6 | Comments                                                                   |
|------------------------|--------|------|-----|-----|-------------|------|-------|------|------|------|---|---|----------------------------------------------------------------------------|
| <i>P. californicus</i> | 1023   | 41.5 | ♂   | M   | TND (close) | 9,5  | 9,6   |      |      |      |   |   |                                                                            |
|                        | N 1073 | 34.5 | ♂   | Sub | TND         | 9,13 | 10,12 | 9,13 |      |      |   |   | Green dust on body from trap<br>3-very sluggish, kept mortality Cat # Holo |
|                        | N 1090 | 31.5 | ♂   | Sub | TND         |      |       | 9,14 | 9,12 | 9,12 |   |   |                                                                            |

Summary: 3 marked (30%): 2 new (20%): 8 captures: 1 mortality  
2 sub: 1 adult  
(see Journal to June for #1093 capture)



9.5.2



2

GRID MC-1: Peromyscus boylii only

Summary:  $5 \text{ marked } (20:3\%) : 2 \text{ new } (10:1\%) : 2 \text{ recaptured } (10:1\%) : 1 \text{ perished } (10:1\%) : 1 \text{ total captures } (20:3\%)$

22

22

22



Hastings Reservation, Monterey Co., Calif.

GRID MC-1: Miscellaneous species

| Species                                                               | No.    | Wt.  | Sex | Age | Brdg                        | Date                                       |             |             |             |             | Comments                        |
|-----------------------------------------------------------------------|--------|------|-----|-----|-----------------------------|--------------------------------------------|-------------|-------------|-------------|-------------|---------------------------------|
|                                                                       |        |      |     |     |                             | June 2 (Am)                                | June 3 (Am) | June 4 (Am) | June 5 (Am) | June 6 (Am) |                                 |
| P. truei                                                              | 0210   | 26   | ♀   | M   | Parous, imp, post-lactating | 10,9                                       | 10,9        | 10,9        | 10,11       | 9,9         | Eating loss/ previously t.c.    |
|                                                                       | 01200  | 23.5 | ♂   | M   | TND (recalcus)              | 9,10                                       |             | 9,10        | 10,10       | 11          | Definite P. truei, etc.         |
|                                                                       | 1065   | 25   | ♀   | M   | imp. parous                 |                                            |             | 10,5        | 10,5        | 9,5         | Eating loss, P.T.C.             |
|                                                                       | 01110  | 24.5 | ♀   | M   | Parous                      |                                            |             | 10,6        | 10,6        | 9,7         | 10? adult - P.T.                |
|                                                                       | N 0140 | 22   | ♂   | M   | Scout                       |                                            |             | 10,9        | 9,10        | 10,9        |                                 |
| P. calif                                                              | N 0220 | 15   | ♂   | Imm | TND                         |                                            |             |             | 9,10        |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
| P. calif                                                              | N 010  | 28   | ♀   | M   | imp. parous                 |                                            |             |             | 9,8         |             | 4-very sluggish, kept in pocket |
|                                                                       | N 0400 | 21   | ♀   | M   | Parous, imp, post-lactating | 8,14                                       | 8,14        | 8,14        | 8,14        | 8,14        |                                 |
|                                                                       | N 0300 | 29.5 | ♂   | M   | scout                       | 10,11                                      | 10,11       | 10,11       | 10,12       |             |                                 |
|                                                                       | N 2038 |      | ♀   | M   | parous, imp                 | 10,14                                      | 10,14       | 10,14       | 10,14       |             |                                 |
|                                                                       | N 1081 |      | ♀   | M   | Parous, imp                 |                                            | 6,11        |             | 6,11        | 6,12        |                                 |
| N. fuscipes                                                           | N 1082 |      | ♀   | M   | imp, multiparous            |                                            | 5,8         |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
| Summary                                                               |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
|                                                                       |        |      |     |     |                             |                                            |             |             |             |             |                                 |
| Summary                                                               |        |      |     |     |                             |                                            |             |             |             |             |                                 |
| P. truei: 10 marked (3:3): 2 new (2:0): 1 imm (1:0): 5 mature (20:38) |        |      |     |     |                             | : 1 scrotal : 1 parous : 19 total captures |             |             |             |             |                                 |
| P. calif: 3 (2:0:1): 3 new :                                          |        |      |     |     |                             | : 1 scrotal : 10 total captures            |             |             |             |             |                                 |
| Neotoma: 4 marked (3:0:1): 3 new (1:0:2): 4 mature                    |        |      |     |     |                             | : 0 breeding : 9 total captures            |             |             |             |             |                                 |





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1987

JOURNAL - GRID DATA (3)

Hastings Natural History Reservation, Monterey Co., Calif.

GRID MC-1: Miscellaneous SPECIES

| Species                        | No.    | Wt. | Sex | Age     | Body.                      | Dec         | 1     | 2     | 3     | 4     | 5     | 6     | Comments                       |
|--------------------------------|--------|-----|-----|---------|----------------------------|-------------|-------|-------|-------|-------|-------|-------|--------------------------------|
| <i>P. truei</i>                | 01200  | 25  | ♂   | M       | Scrotal                    | July 12(am) | 10,10 | 10,9  |       | 10,9  | 10,8  | 10,7  |                                |
|                                | 0210   | 28  | ♀   | M       | Parous, impet, lactating   |             | 10,11 | 10,8  | 10,8  | 10,10 | 10,9  | 10,11 | 3-lactating                    |
|                                | 1065   | 30  | ♀   | M       | Parous, imp.               |             |       | 10,5  |       |       |       | 10,5  | 6-3g - Early Pregnancy(?)      |
|                                | 0140   | 22  | ♂   | M       | Scrotal                    |             | 10,10 | 10,8  | 10,8  | 10,5  | 9,10  | 9,9   |                                |
|                                | N 0300 | 12  | ♂   | Imm     | TND                        |             |       |       | 10,6  | 10,6  | 10,5  | 10,6  | Tiny!                          |
|                                | N 0310 | 9.5 | ♀   | Imm     | imp. null                  |             |       |       | 10,11 | 10,11 | 10,11 |       |                                |
|                                | 0110   | 30  | ♀   | M       | Parous lactating           |             | 10,8  | 10,6  | 10,5  | 9,7   | 10,6  | 9,7   |                                |
| <i>P. truei</i>                | N 0320 | 11  | ♂   | Imm     | TND                        |             |       |       |       | 10,7  |       | 10,7  |                                |
| <i>N. fuscipes</i>             | N 1095 |     | ♂   | early M | TND                        |             | 9,9   | 9,9   | 10,9  | 8,8   |       | 10,9  | 3 ticks in ear, 1 on mouth     |
|                                | 1092   |     | ♂   | M       | TND                        |             |       | 10,14 |       |       |       |       |                                |
|                                | N 1099 |     | ♀   | M       | imp. Parous                |             |       |       | 5,8   | 5,8   |       | 5,8   |                                |
|                                | 1082   |     | ♀   | M       | imp. Parous                |             |       |       |       |       | 9,9   |       |                                |
|                                | N 1909 |     | ♂   | early m | TND                        |             |       |       |       |       |       | 6,11  |                                |
| <i>P. truei</i>                | 01200  |     | ♂   | M       | Scrotal                    |             |       |       |       | 10,9  |       |       | Didn't weigh                   |
| <i>P. truei</i>                | N 0330 | 10  | ♀   | Imm     | imp. imm.                  |             |       |       |       |       |       | 10,10 |                                |
| <i>Peromyscus californicus</i> | N 020  | 19  | ♂   | Sub     | TND                        |             | 10,5  | 10,6  | 10,6  |       | 10,6  |       | 5-Moping                       |
|                                | 010    | 27  | ♀   | M       | Parous imp. Post-lactating |             | 8,8   | 8,8   | 8,8   |       | 8,8   |       |                                |
|                                | N 030  | 20  | ♂   | M       | TND                        |             | 8,8   |       | 10,8  |       | 9,8   | 6,6   | Pulled tick off from below eye |
|                                | 0300   | 27  | ♂   | M       | Scrotal                    |             |       |       | 10,10 | 10,12 |       | 10,11 |                                |
|                                | 0120   |     | ♂   | M       | Scrotal                    |             |       |       |       |       |       | 10,14 | Originally tagged on transect  |





RIBBLE, D.D.  
1987

Journal - GRID DATA (1)

Hastings Natural History Reservation, Monterey Co., Calif.  
GRID MC-1: Peromyscus californicus only

| Species                | No.  | Wt. | Sex              | Age       | Brdg         | Dec | 1     | 2    | 3    | 4    | 5    | 6    | 7 | 8 | Comments                                        |
|------------------------|------|-----|------------------|-----------|--------------|-----|-------|------|------|------|------|------|---|---|-------------------------------------------------|
| <u>P. californicus</u> | 1093 | 33  | <del>sub</del> ♂ | Sub       | TND          |     | 10.14 | 9.12 | 8.14 | 9.14 | 9.10 | 9.14 |   |   |                                                 |
|                        | 1013 | 38  | ♂                | M         | TND          |     |       | 8.8  | 9.7  | 10.6 |      | 8.5  |   |   |                                                 |
| N                      | 1906 | 23  | ♀                | early sub | imp. nullip. |     |       |      |      |      | 8.5  |      |   |   | californicus tail, definite sub, ht=24.5<br>ID? |





RIBBLE, D.O.  
1987

Journal - GRID DATA (2)

Hastings Natural History Reservation, Monterey Co. Calif.

GRID MC-1: *Peromyscus boylii* only

| Species          | No.           | Wt           | Sex          | Age                | Brdg                                  | Dec             | 1               | 2               | 3               | 4               | 5               | 6               | Comments                                                                 |
|------------------|---------------|--------------|--------------|--------------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------------------------------------------------------|
| <i>P. boylii</i> | 02010         | 27           | ♂            | M                  | scrotal                               |                 | 6.7             | 8.6             |                 | 9.5             | 9.5             | 9.5             |                                                                          |
| <del>02010</del> | <del>25</del> | <del>♂</del> | <del>M</del> | <del>scrotal</del> | <del>pregnant</del>                   | <del>10.8</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>Pregnant ripened and ate chertid</del>                              |
| <del>02010</del> | <del>25</del> | <del>♀</del> | <del>M</del> | <del>scrotal</del> | <del>pregnant</del>                   | <del>10.8</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>10.5</del> | <del>Pregnant, I mistakenly recaptured, so new # is 02310</del>          |
| <del>02010</del> | <del>24</del> | <del>♂</del> | <del>M</del> | <del>scrotal</del> | <del>scrotal</del>                    | <del>8.13</del> | <del>8.13</del> | <del>8.13</del> | <del>8.13</del> | <del>8.13</del> | <del>8.13</del> | <del>8.13</del> | <del>Caught off grid on Transect A-1, 3</del>                            |
| <del>02220</del> | <del>26</del> | <del>♀</del> | <del>M</del> | <del>scrotal</del> | <del>pregnant, early pregnancy?</del> | <del>5.10</del> | <del>9.10</del> | <del>9.10</del> | <del>9.10</del> | <del>9.10</del> | <del>10.9</del> | <del>10.9</del> |                                                                          |
| <del>02230</del> | <del>21</del> | <del>♂</del> | <del>M</del> | <del>scrotal</del> | <del>scrotal</del>                    | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  |                                                                          |
| <del>02300</del> | <del>20</del> | <del>♀</del> | <del>M</del> | <del>scrotal</del> | <del>scrotal</del>                    | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  |                                                                          |
| <del>02310</del> | <del>20</del> | <del>♀</del> | <del>M</del> | <del>scrotal</del> | <del>scrotal</del>                    | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>5.8</del>  | <del>Tagged in Transect A-1, - 2 Misroad caught on transect @ 4/17</del> |





RISBLE, D.O.  
1987

JOURNAL - GRID DATA (1)

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: *Peromyscus californicus* only

| Species           | No.  | Wt.  | Sex | Age | Brady | Occ    | 1 | 2              | 3     | 4    | 5 | Comments |
|-------------------|------|------|-----|-----|-------|--------|---|----------------|-------|------|---|----------|
| <i>Peromyscus</i> | 1093 | 30.0 | ♂   | M   | TND   | 11, 15 |   |                | 10.15 | 8.11 |   |          |
|                   | 1023 | 40.0 | ♂   | m   | TND   |        |   | <del>8.5</del> | 8.5   | 9.5  |   |          |





KIBBLE, D.D.  
1997

JOURNAL - GRID DATA (2)

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: *Peromyscus boylii* ~~and~~ *P. truei*

| Species          | No      | Wt.  | Sex | Age       | Body             | Date   |        |                 |        | Comments                     |
|------------------|---------|------|-----|-----------|------------------|--------|--------|-----------------|--------|------------------------------|
|                  |         |      |     |           |                  | Aug 12 | Aug 13 | Aug 14          | Aug 15 |                              |
| <i>P. boylii</i> | 02220   | 32.0 | ♀   | M         | PREG             |        | 5.9    | 6.14            |        |                              |
|                  | 02010   | 28.0 | ♂   | M         | SCRO             |        | 7.5    |                 | 6.8    | Pre-ear tagged               |
|                  | 02300   | 25.0 | ♂   | M         | SCRO             |        | 8.17   | 10.17           | 8.17   |                              |
|                  | 02340   | 24.0 | ♂   | M         | SCRO             |        | 9.17   | 9.17            |        |                              |
|                  | 02330   | 18.0 | ♂   | SUB       | TND              |        | 9.16   | <del>7.16</del> | 7.16   | Left front foot in trap door |
|                  | 02330   | 23.5 | ♂   | M         | SCRO             |        | 6.8    |                 |        |                              |
|                  | N 02440 | 23.5 | ♀   | M         | Imp partial      |        | 7.18   | 7.18            | 7.16   |                              |
|                  | 02310   | 23.5 | ♀   | M         | part             |        | 8.18   | 8.18            | 9.18   |                              |
|                  | N 03000 | 25.0 | ♀   | M         | part (pregn) - ? |        | 7.5    | 7.5             | 7.5    | (3, 248)<br>near location    |
|                  | 02410   | 17.5 | ♀   | M         | pregnant         |        | 9.15   | 7.16            | 10.17  | 3-locating                   |
| <i>P. truei</i>  | 02420   | 21.5 | ♂   | M         | SCRO             |        |        | 9.17            | 9.17   |                              |
|                  | 0330    | 16.0 | ♀   | Imm       | Imm Null         |        | 9.10   | 10.10           | 8.17   | 10.11                        |
|                  | 0300    | 18.0 | ♂   | Early SUB | TND              |        | 9.7    | 10.6            | 9.8    | 8.8                          |
|                  | 01110   | 31.0 | ♀   | M         | Early Preg       |        | 10.6   | 10.6            | 9.6    | 9.7                          |
|                  | 0210    | 27.0 | ♀   | M         | Post Preg LACT.  |        | 10.8   | 10.9            | 10.10  | 9.8                          |
|                  | 01200   | 25.0 | ♂   | M         | SCRO (Barely)    |        | 10.10  | 10.11           | 10.5   |                              |
|                  | 0320    | 17   | ♂   | Early sub | TND              |        |        | 10.10           | 10.12  |                              |
|                  | N 0340  | 27.5 | ♀   | Mature    | Post Preg        |        |        |                 | 9.8    | Test cut                     |
|                  |         |      |     |           |                  |        |        |                 |        |                              |
|                  | N 03010 | 20   | ♂   | sub       | sub              |        |        |                 | 8.5    |                              |





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1987

JOURNAL - GRID DATA (3)

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: Misc. Species.

| Species     | No.       | Wt.  | Sex | Age            | Bridg      | Date   |        |        |        | Comments                                               |
|-------------|-----------|------|-----|----------------|------------|--------|--------|--------|--------|--------------------------------------------------------|
|             |           |      |     |                |            | Aug 12 | Aug 13 | Aug 14 | Aug 15 |                                                        |
| Perognathus | N 040     | 17.5 | ♀   | sub            | imp null   | 8.8    | 7.7    | 7.7    | 8.8    |                                                        |
|             | N 0110    | 20.0 | ♀   | <del>sub</del> | imp per.   | 7.10   | 7.10   | 7.10   | 7.10   |                                                        |
|             | N 0120    | 18.0 | ♀   | sub            | imp null   | 9.11   | 9.13   | 9.12   | 9.12   |                                                        |
|             | 020       | 22.0 | ♂   | m              | TND        | 10.5   | 10.5   | 10.6   | 10.5   |                                                        |
|             | 0300      | 29.0 | ♂   | m              | TND        | 10.14  | 9.9    | 10.7   | 10.7   |                                                        |
|             | 01110     | 21.5 | ♂   | m              | TND        | 10.18  |        | 10.18  |        | lost tail in trap<br>Number changed from 0110 to 01110 |
|             | 010       | 27.0 | ♀   | m              | part. per. | 6.5    | 6.5    | 6.5    | 6.5    |                                                        |
|             |           |      |     |                |            |        |        |        |        |                                                        |
| Sorex fr.   | N 0130    | 24.0 | ♂   | m              | TND        |        |        | 5.12   |        |                                                        |
|             | 030       | 24.0 | ♂   | m              | TND        |        |        |        | 6.6    |                                                        |
|             | Est # 784 | 4.5  | ♂   | m              | NB         |        |        |        | 11.18  | Mortality                                              |
| Neotoma     | 775       |      | ♀   | m              | imp per    | 9.18   |        |        |        |                                                        |
|             | 1095      |      |     |                |            | 9.9    | 9.9    | 9.9    | 9.9    |                                                        |
|             | 1089      |      | ♀   | m              | undup      |        | 5.10   | 5.9    | 5.10   |                                                        |
|             | N 1092    |      | ♀   | m              | imp undup  |        | 6.12   | 6.12   | 6.12   |                                                        |
|             | 2638      |      |     |                |            |        | 10.15  | 11.15  |        |                                                        |
|             | N 19334   |      | ♀   | sub            | imp undup  |        | 11.15  |        |        | 2 can tag 1933 and 1934                                |
|             | 1082      |      |     |                |            |        |        |        | 5.8    |                                                        |
| N 1935      |           |      | ♂   | only m         | TND        |        |        |        | 8.12   |                                                        |





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1987

JOURNAL - GRID DATA (1)

Hastings Reservation, Monterey Co., Calif.

GRID W12: *Peromyscus californicus* only

PLATE 4 - DATA

| Species           | No.    | Wt.  | Sex | Age      | Body          | Occ    | Dec 9 (am) | Dec 9 (pm) | Dec 10 (am) | Dec 10 (pm) | Comments                                                   |
|-------------------|--------|------|-----|----------|---------------|--------|------------|------------|-------------|-------------|------------------------------------------------------------|
| <i>Peromyscus</i> | ✓ 1957 | 39   | ♀   | IM       | lactating     | 15, 12 | 15, 12     |            | 3           | 4           | 1- Dusked FEED; escaped to SW under willow previously bled |
| ✓ N               | 1113   | 22   | ♂   | IM       | TND           | 15, 12 | 15, 12     |            |             |             | Tissues collected                                          |
| ✓ W               | 1116   | 36   | ♂   | IM       | scrotal       | 7, 5   | 7, 5       |            |             | 6, 5        | Tissues collected white tail tip.                          |
| ✓ N               | 1119   | 30   | ♀   | SAD      | unsp. nullip. | 6, 5   | 7, 5       | 7, 5       | 7, 5        | 6, 5        | Tissues coll.                                              |
| ✓ N               | 1118   | 31   | ♂   | SAD      | TND           | 6, 4   | 6, 5       | 6, 5       | 6, 5        | 7, 5        | Tissues coll.                                              |
| ✓ N               | 1121   | 36   | ♂   | IM       | scrotal       |        | 12, 10     | 12, 10     |             | 10, 10      | Tissue coll                                                |
| ✓ N               | 1122   | 32.5 | ♀   | late SAD | unsp. nullip. |        | 10, 10     | 10, 10     |             | 12, 10      | " 4                                                        |
| ✓ N               | 1125   | 28   | ♀   | SAD      | unsp. nullip. |        | 8, 5       | 8, 5       |             | 9, 10       | " "                                                        |
| ✓ W               | 1127   | 28   | ♂   | SAD      | TND           |        |            |            | 3, 2        |             | " "                                                        |
| ✓                 | 1958   | 32   | ♂   | IM       | scrotal       |        |            |            |             | 15, 12      | Tot. bag to lab - to bleed covered with RED TAPE           |





RIBBLE, D.D.  
1987

JOURNAL - GRID DATA (3)

Hastings Reservation, Monterey Co., Calif.

GRID WZ: *Perognathus* & *H. fasciatus*

| SPR.                      | No         | WT  | Sex | Age | Bdgy        | Dec 9 (am) |       |      |       | Comments           |
|---------------------------|------------|-----|-----|-----|-------------|------------|-------|------|-------|--------------------|
|                           |            |     |     |     |             | Dec 1      | 2     | 3    | 4     |                    |
| <i>Perognathus</i> N 0200 |            | 17  | ♀   | SAD | imp. mullip | 9,10       |       | 10,9 |       |                    |
|                           | 0110       | 21  | ♀   | M   | imp. pious  | 9,6        |       |      |       | ptc                |
|                           | 0130       | 23  | ♀   | M   | "           | 8,8        | 7,7   |      | 6,6   | ptc                |
|                           | N 0210     | 24  | ♀   | M   | imp. pious  | 3,4        | 3,4   |      | 3,4   |                    |
|                           | 0100       | 25  | ♂   | M   | TAD         | 1,3        | 1,2   |      | 1,3   | ptc                |
|                           | 020        | 23  | ♀   | M   | imp. pious  |            | 13,10 | 11,9 |       |                    |
| <i>Strawberry</i>         | Dist. male | 0   | ?   |     |             |            |       |      | 4,3   |                    |
| <i>H. fasciatus</i>       | N 1114     | 195 | ♂   | M   | TAD         | 10,6       | 10,10 |      |       |                    |
|                           | N 1115     | 125 | ♀   | SAD | imp. mullip | 8,8        | 8,9   |      |       |                    |
|                           | N 1120     | 215 | ♂   | M   | TAD         |            | 16,13 |      | 16,13 |                    |
|                           | N 1126     |     | ♂   | M   | TAD         |            |       | 1,2  | 1,2   | Didn't have saddle |
|                           | Dist. TAD  |     |     | M   |             |            |       |      | 14,12 |                    |
|                           | "          |     |     | M   |             |            |       |      | 7,7   |                    |
|                           | "          |     |     | M   |             |            |       |      | 1,1   |                    |





RIBBLE, D.D.  
1987

JOURNAL - GRID DATA (2)

Hastings Reservation, Monterey Co., Calif.

GRID WIZ: *P. boylii*

Nov-020

| Spp.                  | No.           | WT   | Sex | Age | Bridg       | Dec 9 (am) |      |      |      | Comments                       |
|-----------------------|---------------|------|-----|-----|-------------|------------|------|------|------|--------------------------------|
|                       |               |      |     |     |             | Dec 1      | 2    | 3    | 4    |                                |
| <i>P. boylii</i><br>↓ | N 020         | 29   | ♀   | M   | Lactating   | 9, 10      |      |      |      |                                |
|                       | N 030         | 19   | ♀   | Imm | imp. nullip | 6, 6       |      |      | 5, 5 |                                |
|                       | (020)<br>0120 | 25   | ♂   | M   | scrubed     | 5, 5       |      |      |      | was PTC # 020, changed to 0120 |
| <i>P. boylii</i>      | N 010         | 24.5 | ♂   | M   | raw         | 14, 10     |      |      |      |                                |
|                       | N 020         | 29   | ♂   | M   | scrubed     | 10, 10     |      |      |      |                                |
|                       | N 030         | 24.5 | ♂   | M   | TVD         | 3, 2       | 4, 5 | 4, 3 |      |                                |
|                       | N 0100        | 30   | ♀   | M   | Lactating   |            |      |      | 1, 2 |                                |





Hastings Reservation, Monterey Co., Calif.

Feb 1-2 GRID 2C-1: *Peromyscus californicus* only

PC 2C15-ant

Feb. 1  
Feb. 2

| Species                | No.  | Wt.   | Sex | Age | Brdg                      | Dec. 1 | 2     | 3 | 4 | Salvage & punna |
|------------------------|------|-------|-----|-----|---------------------------|--------|-------|---|---|-----------------|
| <i>P. californicus</i> | 844  | 42    | ♂   | M   | scrotal                   | 7, 17  | 5, 17 |   |   |                 |
|                        | 609  | 41    | ♀   | M   | imp, pharos               | 8, 17  | 9, 17 |   |   | " "             |
| (1011)                 | 613  | 36    | ♀   | M   | imp, nulliparous          | 6, 14  | 6, 13 |   |   | " "             |
|                        | 1009 | 32    | ♀   | Sub | imp, nulliparous          | 6, 13  | 8, 12 |   |   | " "             |
| *                      | 1014 | 38(?) | ♂   | M   | No, close                 | 7, 13  | 6, 14 |   |   | " "             |
|                        | 1020 | 38    | ♂   | M   | No                        | 5, 11  | 5, 10 |   |   | " "             |
|                        | 835  | 44    | ♀   | M   | imp, nulliparous (?) prob | 5, 10  | 6, 10 |   |   | " "             |
|                        | 1017 | 35    | ♂   | Sub | No                        | 6, 11  | 5, 14 |   |   | " "             |
|                        | 1016 | 28    | ♀   | sub | nullipar                  |        | 5, 10 |   |   |                 |





Ribble, D.O.  
1987

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

Feb 1-2

GRID RC-1: *P. boylii* only

2200  
210

Feb 2  
Feb 1

| Species          | No    | Wt. | Sex | Age | Brdg             | Dec 1 | 2    | 3 | 4                              |
|------------------|-------|-----|-----|-----|------------------|-------|------|---|--------------------------------|
| <i>P. boylii</i> | 01410 | 280 | ♂   | M   | No.              | 9,17  | 6,17 |   |                                |
|                  | 0310  | 26  | ♀   | M   | imp, parous      | 9,17  | 9,17 |   |                                |
|                  | 1752  | 18  | ♀   | M   | imp, nulliparous | 9,17  |      |   |                                |
|                  | 0320  | 22  | ♂   | M   | No               | 7,15  | 7,15 |   |                                |
|                  | 01100 | 22  | ♀   | M   | imp, parous      | 6,11  |      |   |                                |
|                  | 0330  | 24  | ♂   | M   | No               | 7,11  | 7,11 |   |                                |
|                  | 01430 | 24  | ♀   | M   | imp, nullip      | 7,11  | 6,11 |   |                                |
|                  | 0440  | 23  | ♂   | M   | No               | 8,12  | 8,12 |   |                                |
|                  | 0200  | 26  | ♀   | M   | imp, parous      | 8,14  |      |   |                                |
|                  | 01410 |     | ♀?  | M   |                  |       | 6,13 |   | ?? released before positive ID |
| N                | 02100 | 22  | ♀   | M   | prog?            |       | 5,11 |   |                                |
|                  | 01300 | 23  | ♂   | M   | NB               |       | 6,10 |   |                                |





6

GRID RC-1 : Misc

| Species                        | No.    | Wt. | Sex | Age | Brdg                        | Dec 1 | Feb 1 | Feb 2 | 3 | 4 |                                |
|--------------------------------|--------|-----|-----|-----|-----------------------------|-------|-------|-------|---|---|--------------------------------|
| <i>Peromyscus californicus</i> | 0400   | 25  | ♂   | m   | no                          | 8, 14 | 7, 15 |       |   |   |                                |
|                                | 0200   | 24  | ♀   | m   | no                          | 8, 11 | 8, 10 |       |   |   |                                |
|                                | 0300   | 22  | ♂   | m   | no                          | 8, 12 |       |       |   |   |                                |
| <i>Sorex</i>                   | N 0020 | 7   | ♀   | m   | ?                           | 6, 14 |       |       |   |   |                                |
| "                              | 753    | 6   |     |     |                             |       |       |       |   |   | Trap Mortality Cat No 753.     |
| <i>Microtus californicus</i>   | 645    | 43  | ♀   | m   | imp. nulliparous            |       | 6, 15 |       |   |   |                                |
| N                              | 01000  | 60  | ♂   | m   | NB                          |       | 5, 14 |       |   |   |                                |
| N <i>P. maniculatus</i>        | 0220   | 22  | ♂   | m   | NB                          |       | 5, 17 |       |   |   |                                |
| <i>P. maniculatus</i>          | 01300  | 24  | ♂   | m   | no                          | 5, 10 |       |       |   |   | Missing end of tail            |
| <i>P. maniculatus</i>          | 0210   | 20  | ♂   | m   | no                          | 5, 15 |       |       |   |   |                                |
| N <i>P. maniculatus</i>        | 1020   |     | ♀   | m   | imp. nulliparous            | 7, 17 |       |       |   |   |                                |
| N                              | 1029   |     | ♂   | m   | scrotal                     | 4, 17 | 7, 17 |       |   |   |                                |
| N                              | 1030   |     | ♀   | m   | imp. nulliparous            | 5, 13 |       |       |   |   | rt ear notched near base       |
| N                              | 1031   |     | ♂   | m   | NB                          | 7, 12 | 7, 13 |       |   |   | wobble around near rt rear leg |
| N                              | 1032   |     | ♀   | m   | no, imp. nulliparous        | 5, 11 | 5, 11 |       |   |   |                                |
| N                              | 1033   |     | ♀   | m   | parous, imp. maybe pregnant | 5, 10 |       |       |   |   |                                |
| N                              | 1038   |     |     |     |                             |       | 8, 13 |       |   |   | escaped (house 6' away)        |





RIBBLE, D.O.  
1987

JOURNAL - GRID DATA

4

Hastings Reservation, Monterey Co., Calif.

GRID RC-1: Peromyscus californicus ONLY

RC-1 GRID

March 29 (Am)

March 29 (Am)

March 27 (Am)

March 27 (Am)

| Species                | No.  | Wt. | Sex | Age | Brdg         | Occ   | 1     | 2     | 3     | 4     | 5 | 6 | Comments                                                       |
|------------------------|------|-----|-----|-----|--------------|-------|-------|-------|-------|-------|---|---|----------------------------------------------------------------|
| <u>P. californicus</u> | 1015 | 36  | ♂   | M   | scrotal      | 5, 17 |       |       |       |       |   |   |                                                                |
|                        | 1020 | 38  | ♂   | M   | scrotal      | 5, 11 |       |       |       |       |   |   | 1-Dusked RED                                                   |
|                        | 935  | 45  | ♀   | M   | perf. Patous | 5, 11 |       |       |       |       |   |   | Dusked Green - dropped to east.                                |
|                        | 1014 | 40  | ♂   | M   | scrotal      | 8, 12 | 7, 16 |       |       | 6, 13 |   |   | Escaped to Victoria west west of station<br>4-5000 ft. on 2/23 |
|                        | 1009 | 34  | ♀   | M   | imp. nullip  | 8, 13 | 6, 14 | 6, 14 | 7, 14 |       |   |   |                                                                |





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RL-1: *P. boylii* ONLY

1100-2200  
02210

| Species          | No.     | Wt | Sex | Age | Bldg.            | Dec 1 | 2    | 3    | 4    | 5 | 6 | Comments                                                               |
|------------------|---------|----|-----|-----|------------------|-------|------|------|------|---|---|------------------------------------------------------------------------|
| <i>P. boylii</i> | 0310    | 27 | ♀   | M   | imp. parous      | 9,17  | 6,17 |      | 5,17 |   |   |                                                                        |
|                  | 0200    | 22 | ♀   | M   | imp. parous      | 8,15  |      |      | 8,14 |   |   |                                                                        |
|                  | 01410   | 30 | ♂   | M   | TWO close        | 6,17  | 8,15 | 8,15 | 8,16 |   |   |                                                                        |
|                  | 0320    | 24 | ♂   | M   | TWO              | 6,14  | 5,14 | 6,15 |      |   |   |                                                                        |
|                  | 01320   | 26 | ♂   | M   | scrotal (band 4) | 5,14  | 5,14 | 5,14 | 5,14 |   |   |                                                                        |
|                  | 014101  | 26 | ♂   | M   | TWO close        | 6,13  | 4,13 |      | 6,14 |   |   |                                                                        |
|                  | 01400   | 23 | ♀   | M   | imp. parous      | 6,11  | 7,11 | 7,11 |      |   |   | changed from 01410 to 01411<br>back-rgt. foot also clipped at 0100 5/8 |
|                  | 01430   | 25 | ♀   | M   | imp. parous      | 7,11  | 6,11 | 7,12 | 6,11 |   |   |                                                                        |
|                  | 0330    | 24 | ♂   | M   | scrotal          | 8,10  | 6,11 |      |      |   |   |                                                                        |
|                  | 0440    | 26 | ♂   | M   | TWO close        | 8,14  | 8,15 |      |      |   |   |                                                                        |
|                  | 02100   | 18 | ♂   | M   | TWO              |       | 5,17 |      |      |   |   | Not sure on #, may be 02100 NO D                                       |
|                  | 02000   | 21 | ♀   | M   | imp. parous      |       | 5,11 |      |      |   |   |                                                                        |
|                  | 02140   | 19 | ♂   | M   | TWO              |       |      | 6,17 | 6,17 |   |   |                                                                        |
|                  | 02120   | 25 | ♂   | M   | TWO              |       |      |      | 6,10 |   |   |                                                                        |
|                  | 0330    | 22 | ♂   | M   | TWO              |       |      |      | 7,10 |   |   | Both toes clipped on both feet } can't tell if new?                    |
|                  | 0400    | 20 | ♀   | M   | imp. parous      |       |      |      | 7,10 |   |   |                                                                        |
|                  | N 02210 | 25 | ♂   | M   | TWO close        |       |      |      | 8,12 |   |   |                                                                        |





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1987

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6

Hastings Reservation, Monterey Co., Calif.

GRID RC-1 = Misc

| -040-               |         |      |     |         |                                     |                  |               |               |               |   |   |                                          |
|---------------------|---------|------|-----|---------|-------------------------------------|------------------|---------------|---------------|---------------|---|---|------------------------------------------|
| Species             | No.     | Wt.  | Sex | Age     | Bridge                              | March 27 (Am)    | March 27 (Pm) | March 28 (Am) | March 29 (Am) | 5 | 6 | Comments                                 |
| N. fuscipes         | 1028    |      | ♀   | Sub     | Nulliparus                          | 7, 7             | 7, 7          | 7, 7          | 7, 7          |   |   |                                          |
|                     | 1029    |      | ♂   | M       | scrotal                             | 6, 17            |               |               |               |   |   |                                          |
| N                   | 1044    |      | ♀   | M       | imp. parous                         | 7, 15            |               |               |               |   |   |                                          |
| N                   | 1045    |      | ♂   | M       | scrotal                             | 5, 13            |               |               | 5, 13         |   |   |                                          |
|                     | 1030    |      | ♀   | M       | Rel nullip (L?) imp.                | 5, 12            |               |               |               |   |   |                                          |
|                     | 1033    |      |     | M       |                                     | 4, 10            | 4, 10         | 5, 10         |               |   |   |                                          |
|                     | 1021    |      |     |         |                                     | <del>7, 17</del> | 7, 17         |               |               |   |   |                                          |
|                     | 1031(?) |      |     |         |                                     |                  | 5, 13         |               |               |   |   | Tagged in left ear, did not get the #    |
| N. fuscipes         | 1047    |      |     |         |                                     |                  | 5, 10         |               |               |   |   | Had to let it go before getting sex, etc |
| S. townsendi        | 758     | 7.2  | ♀   | M       | lactating                           | 7, 10            |               |               |               |   |   | TRAP MORTALITY                           |
| S. townsendi        | 040     | 8    | ♀   | M       | parous, myoplasma swollen, not lact | 7, 12            |               |               |               |   |   |                                          |
| "                   | 030     | 7.5  | ♂   | M       | TWD                                 |                  | 6, 10         |               |               |   |   |                                          |
| P. maniculatus      | 0220    | 21.5 | ♂   | M       | TWD (clone)                         |                  |               |               | 5, 12         |   |   |                                          |
| P. maniculatus      | 0220    | 20   | ♂   | M       | TWD                                 | 5, 16            | 5, 16         | 5, 15         | 5, 16         |   |   |                                          |
| M. californicus     | 645     | 46   | ♀   | M       | perf. parous                        | 6, 15            | 6, 15         |               | 5, 14         |   |   |                                          |
| P. maniculatus (N)  | 0230    | 15   | ♂   | Early M | TWD                                 |                  |               |               | 5, 12         |   |   |                                          |
| R. megalotis        | 040     | 9    | ♀   | M       | imp.                                | 6, 10            | 6, 10         |               |               |   |   |                                          |
| Perod. californicus | 0200    | 25   | ♀   | M       | imp. parous                         | 7, 10            | 8, 10         | 8, 10         | 8, 10         |   |   |                                          |
| N. fuscipes         | ?       |      |     |         |                                     |                  |               |               |               |   |   | Tagged in left ear, did not get the #    |
| Nebuta fuscipes     | 1053    |      | ♂   | M       | scrotal                             |                  |               |               | 5, 13         |   |   |                                          |
|                     |         |      |     |         |                                     |                  |               |               | 8, 13         |   |   |                                          |





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1987

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Hastings Reservation, Monterey Co., Calif.

GRID RC-1: *Peromyscus californicus* only

GRID DATA

| Species                | No.    | Wt.  | Sex | Age | Brdg                                     | Dec   | June 2 (AM) | June 3 (AM) | June 4 (AM) | June 5 (AM) | June 5 (AM) | June 6 (AM) | June 7 (AM) | Comments                                                         |
|------------------------|--------|------|-----|-----|------------------------------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------------------------------------------|
| <i>P. californicus</i> | N 1076 | 34   | ♀   | Sub | Nullip, imp                              |       | 8, 16       | 9, 17       | 5, 17       | 7, 16       | 9, 17       | 9, 17       | 9, 17       | Brown coming in on flanks, white patch on tail with black at tip |
|                        | N 1078 | 35   | ♀   | M   | Nullip (S) imp                           | 6, 17 |             |             |             |             |             |             |             | Trap Mortality in afternoon - Cat No. 764                        |
|                        | 1014   | 40   | ♂   | M   | Scrotal (small)                          | 4, 17 | 6, 16       | 8, 12       | 7, 15       | 5, 14       |             |             |             | 5-orange pigment                                                 |
|                        | 1009   | 40.5 | ♀   | M   | Pareous lactating                        | 5, 16 | 5, 17       | 6, 17       | 6, 17       | 5, 17       | 5, 15       | 6, 11       | 5, 14       | Dusky orange 2-not lactating                                     |
|                        | N 1079 | 30.5 | ♀   | Sub | Nullip, imp                              | 5, 12 |             |             | 5, 12       | 6, 11       | 6, 11       |             |             | White tail tip - head gray, pur pelage. Flanks w/ new brown.     |
|                        | 835    | 52   | ♀   | M   | Pareous, Perf. swollen but not lactating | 7, 10 | 7, 10       | 7, 10       | 6, 11       | 7, 10       | 7, 9        |             | 4, 9        | Appears immediate post-lactating Dusky Red 8-4 leg.              |
|                        | N 1086 | 37   | ♂   | M   | TND (large)                              |       | 5, 13       | 6, 13       | 7, 10       | 5, 13       | 5, 13       | 6, 13       |             | Down white-tipped tail                                           |
|                        | 1020   | 40   | ♂   | M   | Scrotal small, imp                       |       |             |             | 7, 10       |             |             | 6, 10       | 7, 9        | 4-Red pigment - 7-Red pigment                                    |
|                        | N 1089 | 28.5 | ♀   | Sub | Imperforate                              |       |             |             | 4, 9        | 5, 16       | 5, 14       |             |             |                                                                  |
|                        | 1052   | 38.5 | ♂   | M   | TND                                      |       |             |             | 4, 8        |             | 5, 12       |             |             |                                                                  |
|                        | 1015   | 37   | ♂   | M   | Scrotal bulky                            |       |             |             |             |             |             | 9, 17       | 9, 17       |                                                                  |





2

GRID RC-1: Peromyscus boylii only

[illegible]





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3

Hastings Reservation, Monterey Co., Calif.

GRID RL-1: Miscellaneous species

| Species         | No.  | Wt. | Sex | Age | Brdg                       | June 2 (Am) | June 2 (Pm) | June 3 (Am) | June 4 (Am) | June 5 (Am) | June 5 (Pm) | June 6 (Am) | June 7 (Am) | Comments                                 |
|-----------------|------|-----|-----|-----|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------------------|
| N. fuscus       | 1028 |     | ♀   | M   | Parous imp, post-lactating | 7,17        |             |             |             | 7,17        | 6,17        | —           | 7,17        | 5-caught in skatond                      |
|                 | 1044 |     | ♀   | M   | Parous, post-lactate       | 7,16        | 7,16        |             | 5,16        | 7,15        | 7,15        | —           | 7,15        | 5-caught in skatond trap                 |
|                 | 1029 |     | ♂   | M   | scatol                     | 7,16        | 7,16        |             | 9,17        |             | 7,17        | —           |             |                                          |
|                 | 1077 |     | ♀   | M   | Parous imp                 | 6,16        |             | 5,16        |             | 5,16        | 5,15        | —           | 5,15        | Lost 10mm of tail in trap                |
|                 | 1045 |     | ♂   | M   | scatol                     | 5,13        |             | 5,13        |             | 5,13        | 5,13        | —           |             | labile on skatond                        |
|                 | 1080 |     | ♀   | Imm | nallip.                    | 5,11        |             |             | 5,10        | 5,10        | 5,11        | —           | 5,11        |                                          |
|                 | 1032 |     | ♀   | M   |                            | 5,10        |             |             |             |             |             | —           | 5,13        |                                          |
|                 | 1083 |     | ♂   | Imm | TND                        |             | 5,10        |             | 5,10        | 5,10        | 6,10        | —           | 5,10        |                                          |
|                 | 1084 |     | ♂   | M   | TND                        |             | 7,12        |             | 7,12        | 7,12        | 4,8         | —           | 4,8         |                                          |
|                 | 1085 |     | ♀   | M   | imp. parous                |             | 4,8         | 4,8         | 4,8         | 4,8         | 4,8         | —           | 4,8         |                                          |
|                 | 1033 |     | ♀   | M   | imp. parous                |             | 6,10        | 6,10        | 5,11        | 5,11        | 5,10        | —           | 5,10        |                                          |
|                 | 1087 |     | ♂   | M   | TND                        |             | 6,16        | 6,16        | 5,15        | 5,15        | 5,16        | —           |             | 5-caught in skatond                      |
|                 | 1088 |     | ♂   | M   | TND                        |             | 8,10        | 8,10        | 8,10        | 8,10        | 7,9         | —           | 7,10        |                                          |
|                 | 1047 |     | ♀   | M   | parous, imperforate        |             | 4,10        | 4,10        | 4,10        | 4,10        |             | —           |             |                                          |
|                 | 1087 |     | ♂   | Imm |                            |             |             |             | 4,10        |             |             |             |             |                                          |
| N. fuscus       | 1091 | 81  | ♂   | Imm | TND                        |             |             |             | 6,17        |             |             |             | 7,17        |                                          |
| M. californicus | 0300 | 29  | ♀   | M   | imp. nalliparous           |             |             |             | 6,15        |             |             |             |             | Mortality on 6 June, afternoon Cat # 707 |
| Struthio        | 765  | 59  | ♂   | M   | TND                        |             |             | 5,12        |             |             |             |             |             | TRAP MORTALITY - Cat # 705               |
| Peagethus       | 0400 | 31  | ♂   | M   | scatol                     |             |             | 4,9         |             |             |             |             |             |                                          |
| "               | 0200 | 27  | ♀   | M   | Parous imp post-lactate    |             |             | 8,13        | 8,13        | 8,12        | 7,10        |             | 7,11        |                                          |
| R. megalotis    | 0300 | 5.5 | ♂   | imm | thd                        |             |             |             | 7,10        |             |             |             |             |                                          |
| Z. megalotis    | 0200 | 10  | ♀   | M   | imp. parous                |             | 9,8         |             |             |             |             |             |             |                                          |
| Z. megalotis    | 0100 | 9   | ♂   | M   | scatol                     |             |             |             |             |             |             |             |             |                                          |
| "               | 0200 | 12  | ♀   | M   | pregnant                   |             | 5,14        |             |             |             |             |             |             | Wing # clipped should be 0210            |





RIBBLE, D.O.  
1987

JOURNAL - GRID DATA

4

Hastings Natural History Reservation, Monterey Co., Calif.

GRID RC-1: *N. fuscipes*, page 2

| Species            | No.    | Wt. | Sex | Age | Brdg | Occ | 1 | 2 | 3 | 4 | 5 | 6     | 7 | 8     | Comments                                                     |
|--------------------|--------|-----|-----|-----|------|-----|---|---|---|---|---|-------|---|-------|--------------------------------------------------------------|
| <i>N. fuscipes</i> |        |     |     |     |      |     |   |   |   |   |   |       |   |       | lost ear tag, corner of ear ripped out - escaped intact, yd. |
| "                  | N 1094 |     | ♂   | Imm | TDD  |     |   |   |   |   |   | 5, 10 |   | 6, 10 | Hug warble on throat.                                        |





JOURNAL-GRID Data (1)

GRID RC-1: Peromyscus californicus only

[illegible]





JOURNAL-GRID DATA (2)

GRID 2C1: *Peromyscus boylii* only

[illegible]





JOURNAL - GRID DATA (3)

GRID EC-1: Neotoma fuscipes only

[illegible]





JOURNAL-GRID DATA (4)

GRID RCH: Miscellaneous species

[illegible]





1987

Journal - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

L91210 RC-1: Peromyscus californicus owl 4

| Species                | No   | Wt.  | Sex | Age      | Bdgy             | Dec  | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | Aug 10 (am) | Comments                                                          |
|------------------------|------|------|-----|----------|------------------|------|------|------|------|------|------|------|------|------|------|-------------|-------------------------------------------------------------------|
| <i>P. californicus</i> | 1015 | 40   | ♂   | mature   | (TND) (CLOSE)    | 7.16 | 7.15 | 6.17 | 8.18 | 4.13 | 5.14 | 5.14 | 7    | 8    | 9    | Aug 9 (pm)  | 6 - some Red patches on ears only -                               |
|                        | 1079 | 37   | ♀   | mature   | imp previous     | 6.17 | 6.16 |      | 5.14 | 7.16 | 7.16 | 5.17 | 7.18 | 5.17 | 5.17 | 5.14        |                                                                   |
|                        | 1916 | 32   | ♂   | sad      | TND              | 5.10 | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 6.11 | 5.10 | 6.11 | 6.11 | 6.11        |                                                                   |
|                        | 835  | 51   | ♀   | mature   | lost.            | 5.11 |      |      | 4.9  |      |      | 5.11 |      |      |      | 5.11        | 8-Dusted GREEN - NO collar                                        |
|                        | 1928 | 40   | ♀   | mature   | imp (not)        |      | 7.15 |      | 7.15 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 7.15 | 7.15        | ear up to 0130 previous yr possible rat tag loss. Tagged left ear |
|                        |      |      |     |          | Post-lactating   |      |      |      |      |      |      |      |      |      |      |             | Was #608, last tagged Aug 1986. Post-lactating.                   |
|                        | 1020 | 38   | ♂   | mature   | TND (CLOSE)      |      |      |      | 6.10 | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 6.11 | 6.11        | 5-catch at #835 wst side (green)                                  |
|                        | 1929 | 28   | ♀   | Mgt      | part. budip      |      |      |      | 5.10 | 5.13 | 5.13 | 5.12 | 5.13 | 5.13 | 6.10 | 6.10        | tail cut short. Adult plump. Californicus tail                    |
|                        | 1915 | 32   | ♀   | late sad | imp making       |      |      |      | 5.11 | 5.11 | 5.11 | 4.18 | 7.18 | 9.18 | 9.18 | 9.18        | 6-7 1015 or 1915? questionable                                    |
|                        | 1930 | 41.5 | ♀   | M        | imp. PANDAS      |      |      |      |      | 9.18 | 9.18 | 9.17 | 9.18 | 9.18 | 9.18 | 9.18        |                                                                   |
|                        | 1931 | 32.5 | ♀   | Sub      | imp. nulliparous |      |      |      |      |      |      |      | 5.17 | 7.18 | 5.17 | 5.17        |                                                                   |





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1987

Journal GRID Data

Hastings Natural History Reservation, Monterey Co., Calif.

GRID RL-1: Misc.

| Species            | No.    | Ult. | Sex | Age      | Body     | Dec 1           | Aug 6 (am) | Aug 6 (pm) | Aug 7 (am) | Aug 7 (pm) | Aug 8 (am) | Aug 8 (pm) | Aug 9 (am) | Aug 9 (pm) | Aug 10 (am) | Comments |
|--------------------|--------|------|-----|----------|----------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|----------|
| <u>Perognathus</u> | 020    | 22   | ♀   | immature | immature | 8.16            | 8.16       | 7.16       | 7.16       | 7.16       | 7.16       | 7.16       | 7.15       | 7.15       | 7.15        |          |
|                    | 010    | 23   | ♂   | immature | TND      | 5.11            | 6.13       | 5.14       | 4.11       | 5.12       | 5.12       | 5.12       | 7.11       | 6.13       |             |          |
|                    | N 0120 | 25   | ♂   | immature | TND      | <del>8.15</del> |            |            |            |            |            |            |            |            | 8.15        |          |
|                    | 0110   | 19   | ♂   | immature | TND      |                 |            | 5.8        | 5.8        |            |            |            |            | 4.9        |             |          |
|                    | N 0130 | 29   | ♂   | immature | TND      |                 |            |            | 4.18       |            |            |            |            |            |             |          |
|                    | 030    | 17   | ♀   | ad       | immature |                 |            |            | 7.10       | 7.10       | 7.10       | 7.10       | 8.10       | 7.10       | 5.11        |          |
|                    | N 0140 | 26   | ♂   | immature | TND      |                 |            |            | 5.8        | 5.8        | 5.8        | 5.8        |            | 5.8        |             |          |
|                    | 0200   | 28.5 | ♀   | immature | immature |                 |            |            | 5.9        | 5.9        | 6.10       | 6.10       |            |            | 4.9         |          |
|                    | N 040  | 12.5 | ♀   | immature | prepart  |                 |            | 5.13       |            |            |            |            |            |            | 3.10        |          |
|                    | N 0110 | 9    | ♂   | M        | TND      |                 |            |            |            |            |            |            |            |            |             |          |
| <u>Perognathus</u> | N 0210 | 19   | ♀   | M        | immature |                 |            |            |            |            |            |            | 7.15       |            |             |          |
|                    | N 0220 | 27   | ♂   | M        | TND      |                 |            |            |            |            |            |            |            |            | 5.8         |          |
| <u>Sorex</u>       | N 0200 | 5    | ♂   | immature | TND      |                 | 7.9        |            |            |            |            |            |            |            |             |          |
|                    | N 0200 | 5    | ♂   | immature | TND      |                 |            |            |            |            |            |            |            |            |             |          |
|                    | 010    | 5    |     |          |          |                 |            |            | 6.9        |            |            |            |            |            | 6.9         | note     |





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GRID RC-1: Peromyscus boylii ONLY

[illegible]





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1987

JOURNAL - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID RC-1: Neotoma fuscipes only

| Species            | No.  | Wt. | Sex | Age | Bulky        | Dec 1           | Aug 5 | Aug 6 (am) | Aug 6 (pm) | Aug 7 (am) | Aug 7 (pm) | Aug 8 (am) | Aug 9 (am) | Aug 9 (pm) | Aug 10 (am) | Comments                                              |
|--------------------|------|-----|-----|-----|--------------|-----------------|-------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------------------------------------------------|
| <u>N. fuscipes</u> | 1924 |     | ♂   | Sub |              | 3.8             |       | 4.8        | 3.8        |            |            |            |            | 3.8        | 3.8         |                                                       |
|                    | 1080 |     | ♀   |     |              | <del>5.12</del> |       | 5.12       | 5.12       |            |            |            |            | 5.13       |             |                                                       |
|                    | 1084 |     | ♂   |     |              | 3.11            |       |            |            |            |            |            |            | 4.10       | 4.10        |                                                       |
|                    | 1083 |     | ♀   |     |              |                 |       | 4.8        |            |            |            |            |            | 5.9        |             |                                                       |
|                    | 1088 |     |     |     |              |                 |       |            |            |            |            | 8.10       |            |            |             |                                                       |
|                    | 1044 |     | ♀   | Mat | imp. paleous |                 |       |            |            |            |            |            | 8.12       |            |             |                                                       |
|                    | 1077 |     | ♀   | "   | "            |                 |       |            |            |            |            |            | 5.15       |            |             | Found with rt. front leg caught in trap, & killed it. |





JOURNAL - GRID DATA

GRID RC-1: P. californicus ONLY

| Species                | No.           | Wt.  | Sex | Age  | Body                                 | Occ   | Oct 5 (am) | Oct 5 (pm) | Oct 6 (am)                | Oct 6 (pm) | Oct 7 (am) | Oct 7 (pm) | Oct 8 (am) | Oct 9 |   |                                                                                                                       |
|------------------------|---------------|------|-----|------|--------------------------------------|-------|------------|------------|---------------------------|------------|------------|------------|------------|-------|---|-----------------------------------------------------------------------------------------------------------------------|
| <u>P. californicus</u> | ✓ 1079        | 44   | ♀   | M    | Parous, lactating                    | Oct 1 | 7, 15      |            | 5, 14                     | 7, 10      | 6, 17      | 5, 17      | 5, 14      | 8     | 9 | 7 - Reddish-bell.<br>4 - fine, reddish-bell.<br>3 - to same                                                           |
|                        | ✓ 1070        | 41   | ♂   | M    | tail not noted                       |       | 5, 13      |            | 6, 11<br><del>5, 14</del> |            |            |            |            | 6, 11 |   | Parous lactating - DUSTED RED<br>Escaped to dump between 7, 15 & 10, 14<br>Tissues 3 - fine shape, green<br>7 - green |
|                        | ✓ 835         | 51   | ♀   | M    | Parous, <del>not</del> lactating (?) |       | 6, 11      | 6, 10      | 4, 8                      |            | 5, 9       | 6, 11      | 6, 10      |       |   | Dusted (green) - Secluded fence<br>Dust - tissues taken 3 - fine shape<br>tagged left em # 1949.                      |
|                        | ✓ 013<br>1949 | 27.5 | ♂   | Sub. | tail                                 |       | 5, 10      | 5, 11      |                           | 5, 11      |            | 5, 10      | 5, 12      |       |   | Tissues 2 - fine shape                                                                                                |
|                        | ✓ 1944        | 38   | ♂   | M    | sexual                               |       |            | 7, 10      | 7, 16                     |            | 5, 14      | 5, 14      | 5, 17      |       |   | 5 - Red Powder on ears, legs, But<br>from trap # 6 - same w/ Powder -                                                 |
|                        | ✓ N 1951      | 16   | ♂   | Imm  | tail                                 |       |            |            |                           |            |            |            |            | 8, 12 |   | young of 1079, covered with Red.<br>Collect tissues                                                                   |











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JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC-1: Misc.

[illegible]

200

1949 206-111-27 - 24.5  
given on ear  
1020 - new given ear with eye  
old - flat, pens

200

200



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co, Calif.

GRID RC-1: N. fuscipes ONLY

| Species     | No     | Wt. | Sex | Age             | Brd                             | Oct 1 | 2 | 3    | 4 | 5 | 6    | 7 | 8 | 9    | Comments                                                                           |
|-------------|--------|-----|-----|-----------------|---------------------------------|-------|---|------|---|---|------|---|---|------|------------------------------------------------------------------------------------|
| N. fuscipes | N 1947 |     | ♀   | early<br>mature | imp,<br>mullip                  | 4,18  |   |      |   |   |      |   |   |      | tagged left ear. Rt. ear ripped                                                    |
|             | N 1948 |     | ♀   | M               | Donors, pet.<br>Hart's supplier | 4,16  |   | 4,14 |   |   |      |   |   |      |                                                                                    |
|             | -      |     |     |                 |                                 |       |   | 7,13 |   |   |      |   |   |      | 2 caught by tail heading left. (couldn't reach it under leg so let go)             |
|             | N 1950 |     | ♂   | Sub.            | tail                            |       |   | 7,15 |   |   |      |   |   |      | 2 giant antibodies on throat.                                                      |
|             | 1047   |     |     |                 |                                 |       |   | 4,10 |   |   | 4,10 |   |   |      |                                                                                    |
|             | -      |     |     |                 |                                 |       |   |      |   |   | 6,17 |   |   |      | newborn caught by tail but es caught                                               |
|             | tagged |     |     |                 |                                 |       |   |      |   |   | 4,14 |   |   |      | caught by tail, escaped release tried to grab him.<br>Hart's ear tag, wing 10 1948 |
|             | 1090   |     |     |                 |                                 |       |   |      |   |   |      |   |   | 7,12 | Tag backwashed                                                                     |





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RL-1: *Peromyscus californicus* ONLY

\*Not all traps set  
Oct 13/PM

Oct 13 (am)

Oct 12 (PM)

| Species                | NA           | Wt.  | Sex | Age   | Budg           | Dec 1 | 2    | 3            | 4 | 5 | 6 | 7 | 8 | 9 | Comments                                                                            |
|------------------------|--------------|------|-----|-------|----------------|-------|------|--------------|---|---|---|---|---|---|-------------------------------------------------------------------------------------|
| <i>P. californicus</i> | 0110<br>1952 | 29.5 | ♀   | imm   | TND            | 9.18  |      |              |   |   |   |   |   |   | Prev. ear-clipped.<br>Tissues collected                                             |
| ✓ N                    | 1954         | 30.0 | ♀   | subad | imm            | 7.16  |      |              |   |   |   |   |   |   | Tissues collected - no powder                                                       |
|                        | 1944         | 37.0 | ♂   | adult | TND            | 6.15  |      |              |   |   |   |   |   |   | 1-Red in mouth: ears from trap.                                                     |
|                        | 1079         | 42.5 | ♀   | adult | part. positive | 5.14  |      | 2300<br>5.17 |   |   |   |   |   |   | Radio-collared Ch #11.<br>3-Dusted <del>RED</del>                                   |
| ✓ N                    | 1955         | 17.5 | ♂   | imm   | TND            | 5.14  | 6.14 | 2310<br>5.16 |   |   |   |   |   |   | Eyes fine<br>Tissues collected - white tail tip covered w/ red powder. TL = 172 mm. |
| ✓                      | 835          | 49.5 | ♀   | subad | →              | 6.10  | 7.9  |              |   |   |   |   |   |   | Radio-collared Ch #3<br>Dusted green                                                |
| ✓                      | 1020         | 39.0 | ♂   | ad.   | scrotal        |       | 6.11 |              |   |   |   |   |   |   | green pigment on ears<br>had 2-colored Ch #7                                        |





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JOURNAL - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID PC-1: Peromyscus boylii ONLY

\* Not all traps set  
Oct 13 (Pm)

Oct 13 (am)

Oct. 12 (Pm)

Comments

9

8

7

6

5

4

3

2

1

Body

Age

Sex

Wt.

No.

Species

|       |      |   |        |            |      |      |
|-------|------|---|--------|------------|------|------|
| 03300 | 14.5 | ♂ | imm    | TND        | 8.14 |      |
| 02320 | 27.0 | ♀ | mature | Locating   | 7.11 | 7.10 |
| 02210 | 15.0 | ♂ | imm    | TND        | 6.11 |      |
| 02240 | 28.5 | ♀ | mat.   | perf. loc. |      | 9.17 |
| 03240 | 26.0 | ♂ | mat    | snatched   |      | 4.18 |

RADIO-TRACKING

SESSION





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JOURNAL - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID DC-1: *Perognathus* & *Reithrodontomys*

RADIO-  
TRACKING  
SESSION

\* Not all traps set  
Oct 13 (PM)

Oct 13 (am)

Oct 12 (PM)

Comments

9

8

7

6

5

4

3

2

Dec 1

Bdg

Age

Sex

Wt.

No.

Species

*Perognathus*

0170

♂

immature

8.18

↓

0320

♂

immature

4.17

5.19

020

♀

immature

6.16

6.16

N 0420

♀

immature

5.8

0330

♀

immature

3.10

010

♂

immature

5.11

4.10

N 0430

♂

immature

7.9

*E. megalotis*

N 0240

♂

immature

5.13





Journal-GRID DATA

GRZID RL-1: *N. fuscipes* & misc.

[illegible]





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## Journal - GRID DATA

(1)

Hastings Natural History Reservation, Monterey Co., Calif.

GRID RC-1: P. californicus

| Species                | No.   | Wt.  | Sex | Age      | Bdg.       | Nov. 3 (am) | Nov. 3 (pm) | Nov. 4 (am) | Nov. 4 (pm) | Nov 5 (a) | Nov 6 (am) | Nov 7 (am) | Nov 8 (am) | 9 | Comments                                                                |                   |
|------------------------|-------|------|-----|----------|------------|-------------|-------------|-------------|-------------|-----------|------------|------------|------------|---|-------------------------------------------------------------------------|-------------------|
| <i>P. californicus</i> | 1944  | 40.5 | ♂   | M        | scatd      |             | 6, 14       | 5, 17       |             |           |            | 6, 14      | 6, 14      |   |                                                                         |                   |
|                        | 1955  | 27.5 | ♂   | late imm | TND        | 5, 14       | 4, 14       | 6, 14       | 6, 14       | 6, 14     | 6, 14      | 6, 14      | 6, 14      |   | Adult pelage barely coming in next to skin - <del>covered w/ shed</del> |                   |
| ✓ N                    | 0300  | 17.3 | ♀   | imm      | nullip     | 6, 11       | 6, 11       | 6, 11       | 6, 11       |           |            |            |            |   | 156-75-24.5-20 Tissues collected                                        |                   |
| ✓ N                    | 0200  | 15.5 | ♀   | imm      | nullip     | 6, 11       | 6, 11       | 6, 9        | 6, 9        | 6, 11     |            |            | 4, 8       |   | 160-82-23-20 T. xnuos collected                                         |                   |
|                        | 1966  |      |     |          | pent.      | 6, 11       |             |             |             |           |            |            |            |   | White tail tip - Eye fine                                               |                   |
| ✓ N                    | 03200 | 22   | ♀   | late SAD | nullip(?)  | 3, 8        |             |             |             |           |            |            |            |   |                                                                         |                   |
| ✓ N                    | 0100  | 16.5 | ♂   | imm      | TND        | 5, 8        |             | 6, 11       | 6, 11       | 6, 11     | 6, 11      | 6, 11      | 6, 11      |   | 155-77-24-20 Tissues collected                                          |                   |
| ✓ N                    | 1968  | 34   | ♂   | M        | TND        | 6, 10       | 6, 10       | 6, 10       | 6, 10       | 6, 10     | 6, 10      | 6, 10      | 6, 10      |   | 7-17 eye. 2-eye fine                                                    |                   |
| ✓ N                    | 1969  | 31   | ♀   | SAD      | imp nullip | 6, 10       |             | 6, 10       | 6, 10       |           |            | 5, 11      |            |   | 3-eye fine                                                              |                   |
| ✓                      | 1079  | 56   | ♀   | M        | pregnat    |             |             |             |             | 5, 15     |            |            |            |   | 3-Dust hooded. 5-Radus hood                                             |                   |
| ✓                      | 1952  | 37.5 | ♂   | early M  | TND        |             |             | 5, 17       |             | 8, 18     |            |            | 6, 17      |   |                                                                         |                   |
| ✓                      | 1964  | 38   | ♂   | M        | TND        |             |             |             |             |           |            | 5, 14      | 5, 14      |   | 7-eye fine                                                              | Tissues collected |





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Journal-Grid Data

(2)

Hastings Natural History Reservation, Monterey Co., Calif.

GRID DC-1: P. boylii only

[illegible]





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Journal - GRID DATA

(3)

Hastings Natural History Reservation, Monterey Co., Calif

GRID DC-1: Perognathus & R. megalotis

| Species             | No.                     | Wt.  | Sex | Age | Body          | Occ        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9 | Comments                                                       |
|---------------------|-------------------------|------|-----|-----|---------------|------------|------|------|------|------|------|------|------|------|---|----------------------------------------------------------------|
| <u>Perognathus</u>  | 0320                    | 25   | ♂   | M   | TND           | Nov 3 (am) | 4,18 | 4,18 |      | 4,18 |      | 4,18 | 4,18 | 4,18 |   |                                                                |
|                     | 0720                    | 22.5 | ♀   | M   | imp<br>parous |            | 6,16 | 5,16 | 6,16 |      | 6,16 | 6,16 |      |      |   |                                                                |
|                     | 0430                    | 20.5 | ♂   | M   | TND           |            | 7,9  | 7,9  |      |      | 7,9  | 7,9  | 7,9  |      |   |                                                                |
|                     | 0330                    | 21   | ♀   | M   | imp<br>nullip |            | 4,9  | 3,9  | 3,9  | 3,9  | 3,9  |      | 3,9  |      |   |                                                                |
|                     | 01010<br><del>010</del> | 25   | ♂   | M   | TND           |            | 5,11 | 5,11 | 5,11 | 5,11 | 4,12 | 4,12 | 4,12 | 4,12 |   | 5-mipped DIDIO hunting it<br>was new                           |
|                     | 0220                    |      |     |     |               |            |      |      | 6,11 |      |      |      |      |      |   |                                                                |
| <u>R. megalotis</u> | N 01000                 | 24   | ♂   | M   | TND           |            |      |      |      |      | 4,12 |      |      |      |   |                                                                |
|                     | 0440                    |      |     |     |               |            |      |      |      |      |      | 7,9  |      |      |   | Is this correct? Did it escape<br>animal. assumed it was 0430. |
|                     | N 0320                  | 10   | ♂   | M   | TND           |            |      | 4,12 |      | 4,13 |      | 3,11 | 4    | 4,12 |   |                                                                |
|                     | 0130                    | 10   | ♂   | M   | TND           |            |      | 4,10 | 3,10 |      |      | 3,9  |      |      |   |                                                                |
|                     | 0200                    |      | ♂   | M   | TND           |            |      |      | 4,17 |      |      |      |      |      |   |                                                                |
|                     | 0210                    | 9.5  | ♂   | M   | TND           |            |      |      |      |      |      |      | 7,17 |      |   |                                                                |





(4)

GRID TC-1: N. fusipes & misc.

| Species              | No.         | Wt. | Sex | Age | Brdg.       | Occ   | Nov 3(am) | Nov 3(pm) | Nov 4(am) | Nov 4(pm) | Nov 5(am) | Nov 6(am) | Nov 7(am) | Nov 8(am) | Comments                                                                          |
|----------------------|-------------|-----|-----|-----|-------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------------------------------------------------------------|
| <i>N. fuscipes</i>   | 1950        |     | ♂   | SAD | TND         | 5, 16 |           |           | 7, 15     | 7, 15     | 7, 15     |           | 7, 15     |           |                                                                                   |
| <i>S. latrans</i>    | didn't mark |     | ♀   | M   |             |       |           |           |           |           |           | 5, 11     |           |           |                                                                                   |
| <i>S. townsendii</i> | ptc 0340    | 5.5 | ?   |     |             |       |           |           |           |           |           |           | 4, 10     |           |                                                                                   |
| <i>S. townsendii</i> | Cat No 801  | 5   | ♂   | M   | Brady       |       |           |           |           |           |           |           | 6, 10     |           | Mortality                                                                         |
| <i>Microtus</i>      | N 0210      | 19  | ♂   | Imm | TND         |       |           |           |           |           |           |           |           | 4, 13     |                                                                                   |
| <i>Microtus</i>      | 0110        | 50  | ♀   | M   | Part Parnus | 6, 13 |           |           |           |           | 6, 18     |           | 6, 18     |           | B - Caught by leg in trap door. Released in D.C. condition. No bones broken blood |
|                      | N 0130      | 60  | ♂   | M   | TND         | 4, 13 |           |           |           |           |           | 4, 13     | 4, 13     | 4, 13     | Old ear tag.                                                                      |
|                      | 0445        | 56  | ♀   | M   | Part Parnus | 4, 13 |           |           |           |           |           |           |           |           |                                                                                   |
|                      | 0120        | 52  | ♂   | M   | TND (close) | 6, 18 |           |           |           |           |           |           | 5, 17     |           |                                                                                   |
| <i>Microtus</i>      | N 0200      | 16  | ♀   | Imm | multiparus  |       |           |           |           |           |           | 4, 13     |           |           |                                                                                   |
| <i>S. townsendii</i> | 030         | 5.5 | ?   |     |             |       |           |           |           |           |           |           |           |           |                                                                                   |
| <i>S. townsendii</i> | Cat No 794  | 5   | ♂   |     |             | 6, 14 |           |           |           |           |           |           | 6, 16     | 7, 16     | Mortality                                                                         |
| "                    | N 0240      | 6   | ?   |     |             |       |           |           |           |           |           |           |           |           |                                                                                   |
| "                    | Cat No 799  | 5   |     |     |             |       |           |           |           |           |           |           | 6, 18     | 6, 19     | Mortality                                                                         |





(1)

GRID 2C: Peromyscus californicus

ACCIM-DK

| Species                | Nb.      | Wt.  | Sex | Age              | Band                        | Dec 1 | Nov. 29 (am) | Nov. 29 (pm) | Nov. 30 (am) | Nov. 30 (pm) | Dec 1 (am)       | Dec 1 (pm) | Dec 2 (am) | Dec 2 (pm) | Dec 3 (am) | Dec 3 (pm) | Comments                      |
|------------------------|----------|------|-----|------------------|-----------------------------|-------|--------------|--------------|--------------|--------------|------------------|------------|------------|------------|------------|------------|-------------------------------|
| <i>P. californicus</i> | ✓ 1969   | 37.0 | ♀   | W                | <del>new</del> well         | 6.11  | 6.10         |              | 5.10         | 6.10         | 7.9              |            | 6.10       |            | 6.9        |            |                               |
|                        | ✓ 1901   | 30.5 | ♀   | early<br>ruffled | WMP/well                    | 9.18  | 9.17         | 9.18         |              |              | 8.17             | 7.16       | 7.16       |            | 7.16       |            |                               |
|                        | ✓ 1955   | 33.0 | ♂   | late<br>sed      | TN17                        | 7.16  | 8.18         | 9.17         | 7.16         | 7.16         | 9.18             |            |            |            | 9.17       | 7.16       |                               |
|                        | ✓ 1931   | 42.0 | ♀   | W                | best<br>best.               |       | 9.18         |              |              |              |                  |            |            |            |            |            |                               |
|                        | ✓ 1914   | 40.5 | ♂   | W                | TD                          |       | 6.13         |              | 5.14         |              |                  |            |            |            |            |            |                               |
|                        | ✓ N 1106 | 33.0 | ♂   | W                | TND                         |       | 5.11         |              |              |              |                  |            |            |            |            |            |                               |
|                        | ✓ 1967   | 28.5 | ♂   | sed              | TND                         |       | 4.8          |              |              |              |                  |            |            |            |            |            |                               |
|                        | ✓ 1968   | 33.0 | ♂   | W                | TND                         |       | 6.11         | 5.10         | 5.10         |              | 6.9              | 6.9        |            |            |            | 5.10       |                               |
|                        | ✓ 1944   | 40.0 | ♂   | W                | TND                         |       |              | 7.16         | 6.13         |              | <del>26.13</del> |            |            |            |            |            | red powder on body            |
|                        | ✓ 1952   | 38.0 | ♂   | W                | TD                          |       |              |              |              |              | 8.18             |            |            |            |            |            |                               |
|                        | ✓ 1079   | 53.0 | ♀   | W                | <del>new</del><br>new best. |       |              |              |              |              | 7.16             |            |            |            | 5.14       | 5.16       | Du=4 d Band<br>Coloured black |





$\langle z \rangle$ 

GRID RC: P. boylii

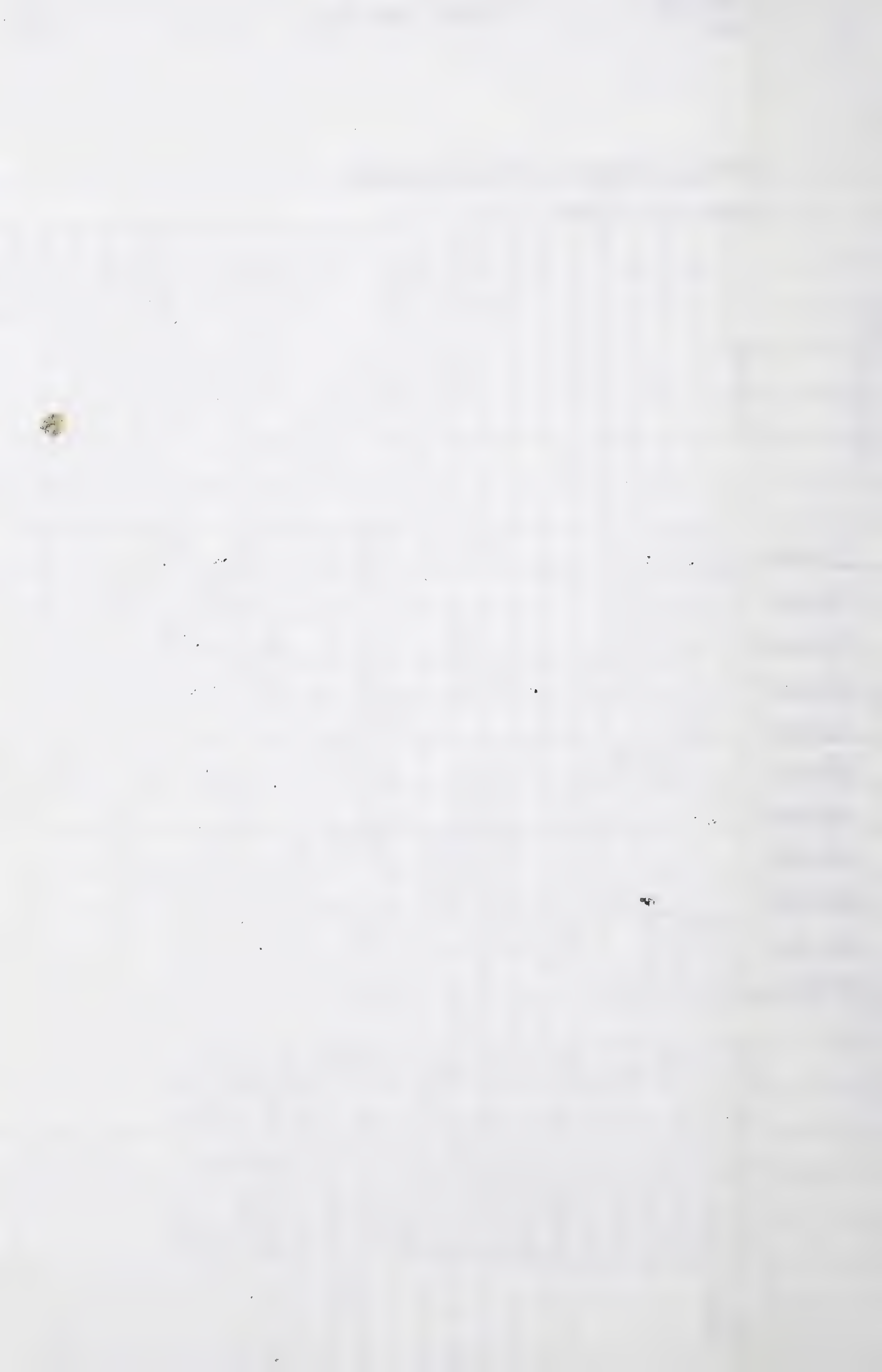
Prüfung-DAT

$$\begin{array}{r} 10 \\ \hline 30 \end{array}$$

2012

Nov -

[illegible]











(4)

Geo PC:

[illegible]





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1987

JOURNAL - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID MC-1: *Peromyscus californicus* only

| Species                | No.    | Wt.  | Sex | Age      | Bdgy         | Oct 1 | 2      | 3      | 4     | 5 | Comments                                                         |
|------------------------|--------|------|-----|----------|--------------|-------|--------|--------|-------|---|------------------------------------------------------------------|
| <i>P. californicus</i> | N 1939 | 32   | ♂   | late sub | tail         | 9, 10 | 9, 13  | 11, 15 |       |   | Tissues collected                                                |
|                        | N 1941 | 37   | ♂   | Mat      | scrotal      | 9, 10 | 9, 13  | 11, 15 |       |   | Tissues collected<br>2-eye fine - escaped under oak 5 of station |
|                        | N 1943 | 40.5 | ♀   | M        | Perf. pinnae |       | 11, 15 |        | 9, 12 |   | Tissues collected<br>4-eye fine                                  |

221

222

223

224



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JOURNAL-GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID MC-1: *Peromyscus boylii* & *Peromyscus truei*

| Species          | No      | Wt.  | Sex | Age | Brdg          | Oct. 1 (am) | Oct. 2 (am) | Oct. 3 (am) | Oct. 4 (am) | Comments                 |
|------------------|---------|------|-----|-----|---------------|-------------|-------------|-------------|-------------|--------------------------|
| <i>P. boylii</i> | 023410  | 34   | ♀   | M   | Pregnant      | 8, 17       |             | 8, 17       |             |                          |
|                  | 02220   | 32   | ♀   | M   | Pregnant      |             | 7, 7        |             |             |                          |
|                  | 03010   | 26.5 | ♀   | M   | Adult         |             | 8, 5        |             |             |                          |
|                  | N 03030 | 10   | ♀   | Imm | Nulliparus    |             | 8, 16       |             |             |                          |
|                  | 02010   | 28.5 | ♂   | M   | Scrotal       |             |             | 7, 5        |             | 1st caught and out fence |
|                  | N 03040 | 16   | ♂   | Imm | TND           |             |             | 5, 10       | 5, 10       |                          |
|                  | N 03110 | 11   | ♀   | Imm | Adult         |             |             |             | 8, 16       |                          |
| <i>P. truei</i>  | 02230   | 24.5 | ♂   | M   | Scrotal       |             |             |             | 5, 10       |                          |
|                  | 01110   | 29.5 | ♀   | M   | Im. P. parous | 10, 6       |             | 10, 5       |             | Ptc, ear-tag loss        |
|                  | 0320    | 22   | ♂   | Sub | TND           | 10, 10      | 10, 10      | 10, 10      | 10, 11      |                          |
|                  | 01200   | 25   | ♂   | M   | Scrotal       |             |             | 10, 9       |             |                          |





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Hastings Natural History Reservation, Monterey Co., Calif.

GRID MC-1: Miscellaneous SW.

| Species             | No.            | Wt.  | Sex | Age | Brdg                          | Oct 1. (am) | Oct 2 (am) | Oct 3 (am) | Oct 4 (am) | Comments                                       |
|---------------------|----------------|------|-----|-----|-------------------------------|-------------|------------|------------|------------|------------------------------------------------|
| <i>Perognathus</i>  | 030            | 26   | ♂   | M   | TND                           | 6,5         | 6,5        | 6,5        | 5          | Molting                                        |
|                     | N 0140         | 24   | ♂   | M   | TND                           | 10,5        | 9,5        |            |            |                                                |
|                     | 0300           | 28   | ♂   | M   | TND                           | 11,15       | 10,6       | 10,15      | 10,7       |                                                |
|                     | 0110           | 24   | ♂   | M   | TND                           | 8,10        | 8,10       | 8,10       | 8,17       | Tail cut<br>Escaped to left by station         |
|                     | 0100           | 28.5 | ♀   | M   | parous-imp.<br>testes swollen | 7,8         | 7,8        | 7,8        | 7,8        |                                                |
|                     | 0100           | 22   | ♀   | M   | imp.<br>parous                | 7,15        |            |            |            |                                                |
|                     | 0130           | 22   | ♂   | M   | TND                           | 5,12        | 7,10       | 5,12       |            |                                                |
|                     | N 0210         | 20   | ♀   | M   | imp.<br>nulliparous           | 10,6        | 10,6       |            |            |                                                |
|                     | 0120           | 20.5 | ♀   | M   | imp.<br>nullip(2)             | 8,15        | 8,14       | 8,14       |            |                                                |
|                     | N 0220         | 28   | ♂   | M   | TND                           |             | 10,5       |            |            |                                                |
| <i>N. fuscipes</i>  | N              |      |     |     |                               | 10,14       |            |            |            | Escaped.                                       |
|                     | 1933<br>(1936) |      | ♂   | M   | TND                           | 11,16       |            |            |            | About to lose tag, re-tagged at<br>ear. T 1936 |
|                     | 1932           |      | ♀   | M   |                               | 6,12        | 6,12       | 6,12       |            |                                                |
|                     | N 1942         |      | ♂   | M   | TND                           | 10,12       | 10,14      | 10,12      |            |                                                |
|                     | 2630           |      |     |     |                               | 11,16       | 11,16      |            |            |                                                |
|                     | 1935           |      | ♂   | M   |                               | 8,12        | 8,12       | 8,12       |            |                                                |
| <i>S. townsendi</i> | N 0100         | 5    | ♀   |     | testes visible                | 10,11       |            |            |            |                                                |





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC-1: P. californicus only

Radio-collared  
Chit #3

| Species                | No.  | Wt. | Sex | Age | Body                                 | Occ   | Time        | Comments |
|------------------------|------|-----|-----|-----|--------------------------------------|-------|-------------|----------|
| <u>P. californicus</u> | 1943 | 47  | ♀   | M   | lactating                            | Dec 1 | Nov 9 (am)  |          |
|                        | 1941 | 38  | ♂   | M   | TND (alone)                          | Dec 1 | Nov 9 (am)  |          |
| N                      | 1971 | 35  | ♂   | M   | TND                                  | Dec 1 | Nov 11 (am) |          |
| N                      | 1976 | 44g | ♀   | M   | IMP. P. parvus<br>Post-lactating (?) | Dec 1 | Nov 11 (am) |          |
|                        | 1023 | 37  | ♂   | M   | TND                                  | Dec 1 | Nov 13 (am) |          |
|                        |      |     |     |     |                                      |       | Nov 13 (pm) |          |
|                        |      |     |     |     |                                      |       | Nov 13 (am) |          |
|                        |      |     |     |     |                                      |       | Nov 12 (am) |          |
|                        |      |     |     |     |                                      |       | Nov 11 (pm) |          |
|                        |      |     |     |     |                                      |       | Nov 12 (am) |          |
|                        |      |     |     |     |                                      |       | Nov 13 (am) |          |
|                        |      |     |     |     |                                      |       | Nov 13 (pm) |          |
|                        |      |     |     |     |                                      |       | Nov 14 (am) |          |

Dusted back. Escaped to hole 2m west of station.  
4 - caught early  
5 - covered with red.  
4 - blood collected & tissues  
5 - eye blue.  
7 - caught in PM (see Journal)





JOURNAL-GRID DATA

GR10 MC-1: P. boylii & P. truei

| Species   | No.     | Wt.   | Sex | Age | Bdg.               | Date  | Nov. 9 (am) | Nov. 9 (pm) | Nov. 10 (am) | Nov. 11 (am) | Nov. 11 (pm) | Nov. 12 (am) | Nov. 13 (am) | Nov. 13 (pm) | Nov. 14 (am) | Comments                                          |
|-----------|---------|-------|-----|-----|--------------------|-------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------------------------------|
| P. boylii | N 03300 | 19.5  | ♂   | SAD | scrotal TWD (toes) | 8, 8  |             |             | 6, 9         |              | 7, 7         |              |              |              |              | 5 - scrotal                                       |
|           | N 02310 | 36    | ♀   | M   | Pregnant           | 8, 17 |             |             | 8, 16        |              | 8, 16        | 8, 16        | 10, 17       | 10, 17       |              | 4 - lactating 29.5g                               |
|           | N 03320 | 13.5  | ♀   | Imm | nullip.            |       |             |             | 8, 17        |              |              |              |              |              |              |                                                   |
|           | N 03330 | 24    | ♀   | SAD | nullip., perineal  |       |             |             | 6, 14        |              |              |              | 6, 14        |              |              |                                                   |
|           | N 03340 | 21    | ♂   | SAD | TWD                |       |             |             | 8, 5         |              | 7, 5         |              |              |              |              |                                                   |
|           | N 03400 | 17    | ♀   | Imm | nulliparous        |       |             |             | 6, 8         |              |              |              |              |              |              |                                                   |
|           | N 02300 | 26    | ♂   | M   | scrotal            |       |             |             |              |              | 10, 17       |              |              |              | 11, 18       |                                                   |
|           | N 03410 | 14    | ♂   | Imm | TWD                |       |             |             |              |              | 8, 17        |              |              |              |              |                                                   |
|           | N 03430 | 15    | ♀   | Imm | nulliparous        |       |             |             |              |              |              | 9, 17        |              |              | 11, 18       |                                                   |
| R. truei  | N 01100 | 15    | ♂   | Imm | TWD                |       |             |             |              |              |              |              |              |              |              | Climbed 01110 (wrong) at 01120 Nov 11 (am) 10, 10 |
|           | N 0410  | 17    | ♂   | SAD | TWD                |       |             |             | 10, 10       |              | 9, 5         | 9, 5         | 8, 5         |              |              | cond = h.f = 23                                   |
|           | N 0420  | 26    | ♀   | SAD | perineal lactating | 8, 5  | 11, 15      |             |              |              |              |              |              |              |              | cond = 24 hf = 23 SAD perineal pte                |
|           | N 01200 | 27    | ♂   | M   | scrotal            | 10, 5 |             |             | 10, 7        |              |              |              |              |              |              |                                                   |
|           | N 01110 | 30(1) | ♀   | M   | lactating          |       |             |             | 10, 16       |              |              |              | 10, 7        |              |              | 7-caught PM                                       |
|           | N 0320  | 24    | ♂   | M   | scrotal            |       |             |             | 11, 15       |              |              |              | 10, 9        |              |              | 7-caught AM                                       |
|           | N 0430  | 14    | ♂   | Imm | TWD                |       |             |             | 10, 9        |              |              |              | 10, 9        |              |              | 7-caught in PM                                    |





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JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC-1: Miscellaneous species

| Species            | No.  | Alt. | Sex | Age | Body       | Dec | 1    | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | Comments |
|--------------------|------|------|-----|-----|------------|-----|------|-------|------|------|------|------|------|------|------|----------|
| <i>Perognathus</i> | 030  | 26   | ♂   | M   | TWD        | Dec | 4,5  | 4,5   |      |      |      |      |      |      |      |          |
|                    | 010  | 26   | ♀   | M   | imp penous |     | 7,8  | 7,8   | 7,8  | 7,8  |      |      |      |      |      |          |
|                    | 010  | 24   | ♂   | M   | TND        |     | 8,10 | 8,10  | 9,17 | 9,17 | 8,17 | 8,10 | 8,17 | 8,17 | 8,10 |          |
|                    | 0300 | 28   | ♂   | M   | TND        |     |      | 14,15 |      |      |      |      |      |      |      |          |

|                    |      |   |   |  |  |  |      |  |  |  |       |       |  |  |       |  |
|--------------------|------|---|---|--|--|--|------|--|--|--|-------|-------|--|--|-------|--|
| <i>N. fuscipes</i> | 1936 | ♀ | M |  |  |  | 9,16 |  |  |  |       |       |  |  | 11,16 |  |
|                    | 1942 | ♂ | M |  |  |  |      |  |  |  | 10,12 | 10,12 |  |  |       |  |

Score 100 5 917





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus* only

PC MC 10-DAT

| GZ10 MC: <i>P. californicus</i> only |        |      |     |         |                          |       |      |        |       |        |        |        |        |   |    |    |    |                                                 |  |
|--------------------------------------|--------|------|-----|---------|--------------------------|-------|------|--------|-------|--------|--------|--------|--------|---|----|----|----|-------------------------------------------------|--|
| Species                              | No.    | Wt.  | Sex | Age     | Body                     | Dec 1 | 2    | 3      | 4     | 5      | 6      | 7      | 8      | 9 | 10 | 11 | 12 | Comments                                        |  |
| <i>P. californicus</i>               | ✓ 1104 | 39   | ♀   | early m | multip. (unsp. tel. no.) | 9, 7  |      |        |       |        | 10, 9  | 10, 9  | 9, 9   | 9 |    |    |    | maybe pregnant                                  |  |
|                                      | ✓ 1971 | 40   | ♂   | m       | scrotal                  | 9, 7  | 9, 7 | 9, 16  | 10, 9 | 10, 9  |        |        | 9, 7   |   |    |    |    | 3 - took back to lab. one pup                   |  |
|                                      | ✓ 1128 | 22   | ♂   | imm     | TWD                      |       |      | 9, 5   |       |        |        |        | 10, 6  |   |    |    |    | 3 - Dissected OVIDED.                           |  |
|                                      | ✓ 1943 | 44.5 | ♀   | m       | parous, lactating        |       |      | 10, 15 |       |        |        |        | 9, 10  |   |    |    |    | 8 - Reddish - Lactating                         |  |
|                                      | ✓ 1129 | 35   | ♂   | m       | scrotal                  |       |      | 9, 10  |       |        |        | 10, 17 |        |   |    |    |    | 3 - took back to lab. 1 pup                     |  |
|                                      | ✓ 1130 | 19.5 | ♀   | imm     | multip                   |       |      |        | 9, 10 | 9, 10  |        | 9, 10  | 9, 10  |   |    |    |    | 4 - lab. covered with 5 - eye pup               |  |
|                                      | ✓ 1111 | 30.5 | ♂   | SAD     | TWD                      |       |      |        |       | 10, 10 |        |        | 8, 8   |   |    |    |    | 10 - Red around mouth; on feet                  |  |
|                                      | ✓ 1110 | 20   | ♂   | imm     | TWD                      |       |      |        |       | 10, 13 | 10, 13 |        |        |   |    |    |    | 10 - took to lab. had 10 - covered around mouth |  |
|                                      | ✓ 1133 | 18.5 | ♀   | imm     | multip                   |       |      |        |       | 9, 10  | 9, 10  |        |        |   |    |    |    | * Returned to lab. for blood.                   |  |
|                                      | ✓ 1941 | 40.5 | ♂   | m       | scrotal                  |       |      |        |       |        |        |        | 10, 15 |   |    |    |    | Returned to lab. to bleed.                      |  |
|                                      | ✓ 1100 | 41   | ♂   | m       | scrotal                  |       |      |        |       |        |        |        | 9, 9   |   |    |    |    | fresh powder (LED) on mouth, limbs.             |  |











Hastings Reservation, Mendocino Co., Calif.

GRID MC: Miscellaneous

| Species               | No.  | wt. | Sex | Age | Bridge     | Dec | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Comments |
|-----------------------|------|-----|-----|-----|------------|-----|---|---|---|---|---|---|---|---|---|----|----|----|----------|
| <i>Perognathus</i>    |      |     |     |     |            |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
| <i>N. bischoffi</i>   | 775  | 240 | ♀   | M   |            |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
|                       | 1099 | 220 | ♀   | M   |            |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
|                       | 1134 | 150 | ♂   | SAD | TWD        |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
|                       | 1936 | 190 | ♂   | M   | TWD        |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
| <i>S. h. subsp.</i>   | 010  | 6   | ?   |     |            |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
| <i>P. maniculatus</i> | 010  | 15  | ♀   | SAD | midlyp     |     |   |   |   |   |   |   |   |   |   |    |    |    |          |
| <i>P. maniculatus</i> | 010  | 11  | ♂   | M   | TWD (clow) |     |   |   |   |   |   |   |   |   |   |    |    |    |          |

3 ticks on left ear -

Caught by tail. About to  
lose both ear tags

10/15

7,8

9,8

8,17





# Drift Fence Data

## 1987







5 April 1944

100

100

100



JOURNAL-DRIFT FENCE DATA

DRIFT FENCE DATA: GRID MC-1

|         | Trap Station                              | Species           | No.          | Wt.   | Sex   | Age       | Bnd         | CAUGHT |     | RELEASED |     |                                 |
|---------|-------------------------------------------|-------------------|--------------|-------|-------|-----------|-------------|--------|-----|----------|-----|---------------------------------|
|         |                                           |                   |              |       |       |           |             | IN     | OUT | IN       | OUT |                                 |
| Oct. 14 |                                           | Nothing           |              |       |       |           |             |        |     |          |     |                                 |
| Oct. 15 | W-7                                       | Perognathus       | New 0240     | 20    | ♀     | Sub       | imp. nullip |        | X   |          | X   | Tail cut short, only 20 mm long |
|         | W-9                                       | P. boylii         | 03020        | 28    | ♀     | ad        | lactating   | X      |     |          | X   |                                 |
|         | E-3                                       | Perognathus       | 0220         | 21    | ♀     | Sub       | imp nullip  |        | X   |          | X   |                                 |
| Oct. 16 | W-7                                       | California Towhee |              |       | ♂(?)  |           |             |        |     |          |     | Mortality                       |
|         | E-1                                       | Perognathus       | 0220         | RECAP |       |           |             | X      |     | X        |     |                                 |
| Oct. 17 | W-9                                       | P. boylii         | 03020        | RECAP |       |           | Lactating   | X      |     |          | X   |                                 |
|         | W-13                                      | Perognathus       | 0240         | 20    | RECAP |           |             |        | X   |          | X   |                                 |
|         | E-1                                       | Perognathus       | 0220         | RECAP |       |           |             | X      |     | X        |     |                                 |
|         | E-5                                       | P. boylii         | New 03120    | 17    | ♂     | early SAD | TND         | X      |     | X        |     |                                 |
|         | E-7                                       | Tarantula!        |              |       |       |           |             | X      |     | X        |     |                                 |
| Oct 18  | Took day off - left traps closed.         |                   |              |       |       |           |             |        |     |          |     |                                 |
| Oct 19  | W-7                                       | P. boylii         | New 03130    | 15.5  | ♀     | Imm       | nullip, imp | X      |     | X        |     |                                 |
|         | W-13                                      | P. truei          | (0400) 03400 | RECAP |       |           | lactating   |        | X   | X        |     | Recaptured from 0400-03400      |
|         | E-1                                       | Perognathus       | 0220         | RECAP |       |           |             | X      |     | X        |     | Went around end of fence        |
|         | E-3                                       | Perognathus       | 0110         | 25    | ♂     | M         | TND         |        | X   |          | X   | Tried to get around.            |
| Oct 20  | W-11                                      | P. boylii         | New 03120    | 22    | ♂     | early M   | scrotal     | X      |     | X        |     | " "                             |
|         | E-1                                       | Perognathus       | 0110         | RECAP |       |           |             | X      |     | X        |     |                                 |
| Oct 21  | W-13                                      | P. truei          | New 03140    | #13   | ♂     | Imm       | TND         |        | X   |          | X   | 1d? maybe P. truei              |
|         | E-7                                       | P. boylii         | New 03200    | 16    | ♂     | Imm       | TND         |        | X   |          | X   |                                 |
|         | - Traps closed but passage ways left open |                   |              |       |       |           |             |        |     |          |     |                                 |





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JOURNAL - DRIFT FENCE DATA (1)

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA - GRID ML-1.

|         | Station              | Species                | No.           | Wt.   | Sex                 | Age          | Bdg.                              | Caught<br>IN OUT | Released<br>IN OUT |                                |
|---------|----------------------|------------------------|---------------|-------|---------------------|--------------|-----------------------------------|------------------|--------------------|--------------------------------|
| Nov. 4  | W-5                  | <i>P. boylii</i>       | 03100         | 28    | ♀                   | M            | imp<br>pregnant<br>post-lactating | X                |                    | X                              |
|         | E-3                  | <i>Perognathus</i>     | 0220          | 21    | ♀                   | M            | nullip<br>imp                     |                  | X                  | X                              |
| 13300   | E-7                  | <i>P. boylii</i>       | New<br>03210  | 16    | ♂                   | Imm          | TND                               | X                | X                  |                                |
| 10410   | E-9                  | <i>P. californicus</i> | 1096          | 37    | ♂                   | M            | TND                               | X                | X                  |                                |
| Nov. 5  | W-9                  | <i>P. boylii</i>       | New<br>03220  | 24    | ♀                   | early<br>SAD | nullip<br>imp                     | X                |                    |                                |
|         | E-1                  | <i>Perognathus</i>     | 0220          | RECAP |                     |              |                                   | X                | X                  |                                |
|         | E-7                  | <i>S. townsendii</i>   | 0300          | 5     | ?                   |              |                                   | X                | X                  |                                |
|         | E-7                  | <i>S. ornatus</i>      | 040           | 4     | ?                   |              |                                   |                  | X                  | X                              |
| Nov 6   | - Nothing Captured - |                        |               |       |                     |              |                                   |                  |                    |                                |
| Nov 7   | W-5                  | <i>P. boylii</i>       | New<br>03230  | 23.5  | ♂<br><del>SAD</del> | SAD          | TND                               | X                | X                  |                                |
|         | W-13                 | <i>P. boylii</i>       | 03240         | 17    | ♀                   | Imm          | nullip                            |                  | X                  | X                              |
|         | E-7                  | <i>S. townsendii</i>   | Pte<br>0200   | 5     | ?                   |              |                                   |                  | X                  | X                              |
| Nov. 8  | W-5                  | <i>Perognathus</i>     | 0240          | 20    | ♀                   | SAD          | imp<br>nullip                     |                  | X                  | X                              |
|         | E-3                  | <i>P. boylii</i>       | New<br>03240  | 17    | ♀                   | Imm          | nullip                            | X                | X                  |                                |
| Nov. 9  | W-3                  | <i>Perognathus</i>     | 0240          | 19.5  | ♀<br>(1 RECAP)      | SAD          | imp<br>nullip                     | X                | X                  |                                |
|         | W-5                  | <i>S. townsendii</i>   | Cat No<br>002 | 5.5   |                     |              |                                   |                  | X                  | - Mortality                    |
|         | E-1                  | <i>Perognathus</i>     | 0220          | RECAP |                     |              |                                   | X                | X                  |                                |
|         | E-9                  | <i>P. californicus</i> | 1096          | 36    | ♂                   | M            | TND                               | X                | X                  |                                |
| Nov 10. | W-5                  | <i>Perognathus</i>     | 0240          | RECAP |                     |              |                                   | X                | X                  |                                |
|         | W-13                 | <i>P. boylii</i>       | New<br>03310  | 18    | ♂                   | SAD          | TND                               |                  | X                  | X                              |
|         | E-7                  | <i>P. californicus</i> | 1096          | RECAP |                     |              |                                   |                  | X                  | X                              |
| Nov 11  | W-1                  | <i>Perognathus</i>     | N<br>0310     | 17    | ♂                   | Imm          | TND                               |                  | X                  | X                              |
|         | W-9                  | <i>N. fuscipes</i>     | N<br>1972     |       | ♂                   | M            | TND                               | ?                | X                  | X                              |
|         |                      |                        |               |       |                     |              |                                   |                  |                    | Caught by tail,<br>see Journal |





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JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID MC-1.

|                          | ST.                   | SP.                                  | No           | Wt.   | Sex | Age           | Bdgs       | CAUGHT |     | RELEASED |     |                                          |
|--------------------------|-----------------------|--------------------------------------|--------------|-------|-----|---------------|------------|--------|-----|----------|-----|------------------------------------------|
|                          |                       |                                      |              |       |     |               |            | IN     | OUT | IN       | OUT |                                          |
| Nov. 12                  | W-1                   | Perognathus                          | 0310         | 17    | ♂   | Imm           | TND        | X      |     | X        |     |                                          |
|                          | W-5                   | Perognathus                          | 0240         | 14.5  | ♀   | SAD           | nullip     |        | X   |          | X   |                                          |
|                          | W-13                  | P. boylii                            | 03200        | 23    | ♂   | Imm           | scrotal    | X      |     | X        |     | Went all the way down to W-5             |
|                          | E-1                   | Perognathus                          | 0220         | 19.5  | ♀   | SAD           | nullip.    | X      |     | X        |     |                                          |
|                          | E-3                   | P. boylii                            | NEW<br>03420 | 17.5  | ♂   | late<br>Imm   | TND        | X      |     | X        |     |                                          |
|                          | E-7                   | P. truei                             | NEW<br>01120 | 17    | ♂   | Imm           | TND        | X      |     | X        |     | hf = 24<br>oad = 23<br>not Realiz. Penis |
| Nov. 13                  | W-5<br><del>out</del> | Perognathus                          | 0240         | RECAP |     |               |            |        | X   |          | X   |                                          |
| (am)                     | W-13                  | P. boylii                            | 03310        | 14    | ♂   | late<br>SAD   | scrotal    |        | X   |          | X   |                                          |
|                          | W-13                  | P. boylii                            | 31200        | RECAP |     |               | scrotal    | X      |     | X        |     |                                          |
|                          | E-1                   | Perognathus                          | 0220         | RECAP |     |               |            |        | X   |          | X   |                                          |
| Nov 13 (pm)              | E-1                   | P. boylii                            | NEW<br>3440  | 18    | ♀   | Imm<br>nullip | →          | X      |     | X        |     |                                          |
|                          | E-3                   | P. boylii                            | NEW<br>4000  |       | ♂   |               | Imm<br>TND | X      |     | X        |     |                                          |
|                          | E-3                   | Perognathus                          | 0220         | RECAP |     |               |            |        | X   |          | X   |                                          |
|                          | W-1                   | P. boylii                            | NEW<br>4010  | 21g   | ♂   | SAD           | Imm<br>TND | X      |     | X        |     |                                          |
|                          | W-5                   | Perognathus                          | 0240         | RECAP |     |               |            |        | X   |          | X   |                                          |
| Nov - 0320<br>W-5 - 0200 | W-7                   | P. <del>boylii</del><br>mormiculatus | NEW<br>010   | 21    | ♀   | SAD           | nullip     | X      |     | X        |     |                                          |
| W-13 - 01130             | W-13                  | P. boylii                            | 03200        | RECAP |     |               |            |        | X   |          | X   |                                          |
| W-04040                  | W-13                  | P. boylii                            | 03220        | 28    | ♀   | SAD           | pregn.     | X      |     | X        |     |                                          |
| Nov 14 (am)              | W-5                   | P. boylii                            | NEW<br>04020 | 17    | ♀   | late<br>Imm   | nullip     | X      |     | X        |     |                                          |
|                          | W-7                   | P. boylii                            | 4010         | RECAP |     |               |            |        | X   |          | X   |                                          |
| Nov 15                   | W-5                   | P. boylii                            | NEW<br>04030 | 20    | ♀   | Imm           | null       | X      |     | X        |     |                                          |
|                          | W-5                   | Perognathus                          | 0240         | RECAP |     |               |            |        | X   |          | X   |                                          |
|                          | W-9                   | P. boylii                            | 04020        | RECAP |     |               |            |        | X   |          | X   |                                          |
|                          | W-13                  | P. boylii                            | 0220         |       |     |               | pregnant   | X      |     |          | X   |                                          |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1



JOURNAL-DRIFT FENCE DATA

DRIFT FENCE DATA: GRID MC-1

|         | St.                                  | SPP             | No    | Wt. | Sex | Age       | Bridg    | CAUGHT |     | RELEASED |     |                          |
|---------|--------------------------------------|-----------------|-------|-----|-----|-----------|----------|--------|-----|----------|-----|--------------------------|
|         |                                      |                 |       |     |     |           |          | IN     | OUT | IN       | OUT |                          |
| Nov. 16 | W-5                                  | Perognathus     | 0240  |     |     |           |          |        | X   |          | X   |                          |
|         | W-13                                 | P. boylii       | 04020 | 16  | ♀   | early sub | nullip   | X      |     | X        |     |                          |
| Nov. 17 | W-5                                  | Perognathus     | 0240  |     |     |           |          | X      |     | X        |     |                          |
|         | W-13                                 | P. boylii       | 03240 | 21  |     |           |          |        | X   |          | X   |                          |
|         | W-13                                 | P. boylii       | 03220 |     |     |           |          | X      |     | X        |     |                          |
| Nov. 18 | W-3                                  | Perognathus     | 0310  |     |     |           |          |        | X   |          | X   |                          |
|         | W-5                                  | P. boylii       | 03000 | 33  | ♀   | M         | pregnant | X      | X   |          |     |                          |
|         | W-7                                  | P. boylii       | 04040 | 10  | ♀   | SAD       | imp      | X      |     | X        |     |                          |
|         | W-9                                  | Perognathus     | 0240  |     |     |           |          |        | X   |          | X   |                          |
| Nov 19  | W-1                                  | Perognathus     | 0310  |     |     |           |          | X      |     | X        |     | Went around end of fence |
|         | W-9                                  | P. californicus | 1102  | 29  | ♀   | Imm       | nullip   | X      |     | X        |     | Tissues collected        |
|         | W-13                                 | Perognathus     | 0240  |     |     |           |          | X      |     | X        |     | Wanted back over.        |
|         | Traps closed; passage ways left open |                 |       |     |     |           |          |        |     |          |     |                          |





DIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE GRID MC

|                                              | ST.  | SPD.               | No.           | WT    | SEX | Age          | Brdg                            | CAUGHT |     | RELEASE |              |                             |
|----------------------------------------------|------|--------------------|---------------|-------|-----|--------------|---------------------------------|--------|-----|---------|--------------|-----------------------------|
|                                              |      |                    |               |       |     |              |                                 | IN     | OUT | IN      | OUT          |                             |
| Nov. 24                                      | W-3  | Perognathus        | 0240          | 19.5  | ♀   | M            | imp.<br>parous                  |        | X   |         | X            |                             |
| Nov- 0320                                    | W-5  | Perognathus        | 0140          | 20    | ♂   | M            | TND                             | X      |     | X       |              |                             |
| 0400                                         | W-5  | Perognathus        | 0310          | 18    | ♂   | SAD          | TND                             |        | X   |         | X            |                             |
| 01220                                        | W-9  | P. boylii          | 03220         | 23    | ♀   | early<br>M   | Lactating                       | X      |     |         | X            |                             |
|                                              | W-13 | P. boylii          | 03240         | 23    | ♀   | SAD          | perf.<br>nullip                 |        | X   |         | X            | see 25 Nov.                 |
|                                              | E-1  | P. tui             | New<br>01210  | 17    | ♂   | Imm          | TND                             | X      |     | X       |              | wanted back                 |
| 11-04120                                     | E-3  | Perognathus        | 0220          | 21    | ♀   | M            | imp,<br>parous                  |        | X   |         | X            |                             |
| Nov. 25                                      | W-1  | Perognathus        | 0310          | RECAP |     |              |                                 |        | X   |         | X            | went around<br>end of fence |
|                                              | W-5  | Perognathus        | 0240          | RECAP |     |              |                                 | X      |     | X       |              |                             |
|                                              | W-5  | P. boylii          | 03000         | 27    | ♀   | M            | teats<br>swollen?<br>lactating? |        | X   | X       |              |                             |
|                                              | W-9  | P. boylii          | 03220         | RECAP |     |              | Lactating                       | X      |     |         | X            |                             |
|                                              | W-13 | P. boylii          | 03240         | 24    | ♀   | SAD          | pregnant                        |        | X   | X       |              |                             |
|                                              | E-1  | Perognathus        | 0220          | RECAP |     |              |                                 | X      |     | X       |              |                             |
| Nov. 26.                                     | W-1  | Perognathus (0310) | Cat No<br>005 | 16    | ♂   | M            | TND                             |        | X   |         | <del>X</del> | Mortality                   |
|                                              | W-5  | Perognathus        | 0240          | RECAP |     |              |                                 | X      |     | X       |              |                             |
|                                              | W-13 | P. boylii          | 03220         | RECAP |     |              |                                 | X      |     | X       |              |                             |
|                                              | E-1  | P. tui             | 01210         | RECAP |     |              |                                 | X      |     | X       |              | went around<br>end          |
|                                              | E-3  | Perognathus        | 0220          | RECAP |     |              |                                 |        | X   |         | X            |                             |
| ~ Traps closed's left blocking passageways ~ |      |                    |               |       |     |              |                                 |        |     |         |              |                             |
| Nov. 29                                      | W-5  | P. boylii          | 03000         | 27    | ♀   | m            | Lactating                       |        | X   | X       |              |                             |
|                                              | W-5  | Perognathus        | 0240          | 18.5  | ♀   | m            | imp                             | X      |     | X       |              |                             |
|                                              | W-9  | P. boylii          | 03200         | 25.0  | ♂   | m            | subad                           | X      |     | X       |              |                             |
|                                              | E-1  | P. tui             | 01210         | 18.0  | ♂   | late<br>imm. | TND                             |        | X   |         | X            |                             |
|                                              | E-3  | Perognathus        | 0220          | 21.0  | ♀   | m            | imp/par.                        |        | X   |         | X            |                             |





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE GRID ~~MC~~ MC

IN OUT IN OUT

Nov 30 W-5 Perognathus 0240 RECAP X X

W-5 P. baylii 04030 28 ♀ sad preg X X

W-9 P. baylii 03200 RECAP X X

W-13 P. baylii 03220 24 ♀ m postpart X X

E-1 Perognathus 0220 RECAP X X

Dec. 1 E-3 Perognathus 0220 RECAP X X

E-5 P. baylii New 04100 ♂ 19 Imm TWD X X wanted back

Dec 2 W-5 Perognathus 0240 RECAP X X

E-3 Perognathus 0220 RECAP X X

E-7 P. baylii New 04110 20.0 ♀ sad null X X would go back

~~W-11 P. baylii 04210 37.0 ♀ sad preg~~

Dec 3 W-5 Perognathus RECAP X X

W-9 P. baylii 03220 ♀ sad postpart X X

E-3 Perognathus 0220 RECAP X X

Dec 4 W-5 Perognathus 0240 RECAP X X

E-1 Perognathus 0220 RECAP X X

~ Traps closed and passageways left blocked ~~~~~

Dec 8 W-5 P. baylii 04030 22 ♀ SAD imp, nullip X X

nothing - 0320 W-9 " 03220 23 ♀ M deep, obvious early preg X X

0400 E-3 Perognathus 0220 22 ♀ M imp, parous X X

Dec 9 W-5 P. baylii ? 03000 31.5 ♀ M lactating pregnant X X pre, but could be natural check

0400 W-5 Perognathus 0240 20 ♀ M imp, nullip(?) X X

04130 W-9 P. baylii 03240 24 ♀ M post-lactation early preg. X X

E-1 P. tuii 01210 21.5 ♂ SAD TWD X X went around

E-3 Perognathus 0220 RECAP X X





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE GRID MC

|                                                     | St.  | SP                     | No.           | Wt.   | Sex | Age      | Bdyg                    | CAUGHT |     | RELEASE |     |                                    |
|-----------------------------------------------------|------|------------------------|---------------|-------|-----|----------|-------------------------|--------|-----|---------|-----|------------------------------------|
|                                                     |      |                        |               |       |     |          |                         | IN     | OUT | IN      | OUT |                                    |
| Dec 10                                              | E-1  | <i>P. truei</i>        | 01210         | RECAP |     |          |                         | X      |     | X       |     | went around end                    |
|                                                     | E-3  | <i>Perognathus</i>     | 0220          | RECAP |     |          |                         |        | X   |         | X   | " "                                |
|                                                     | E-7  | <i>P. boylii</i>       | New<br>04120  | 21    | ♂   | SAD      | TND                     | X      |     | X       |     |                                    |
| Dec 11                                              | W-5  | <i>P. boylii</i>       | 03000         | RECAP |     |          | Lactating               |        | X   | X       |     |                                    |
|                                                     | W-5  | <i>Perognathus</i>     | 0240          | "     |     |          |                         | X      |     | X       |     |                                    |
|                                                     | W-9  | <i>P. boylii</i>       | 03220         | "     |     |          | pregnant (?)            | X      |     |         | X   |                                    |
|                                                     | E-1  | <i>P. maniculatus</i>  | Cat No<br>812 | 15.5  | ♂   | M        | TND                     |        | X   |         |     | Found dead, new animal             |
|                                                     | E-1  | <i>Perognathus</i>     | 0220          | RECAP |     |          |                         | X      |     | X       |     |                                    |
| Traps closed & passage ways left blocked            |      |                        |               |       |     |          |                         |        |     |         |     |                                    |
| Dec 17                                              | W-5  | <i>Perognathus</i>     | 0240          | 20    | ♀   | M        | imp nullip?             | X      |     | X       |     |                                    |
|                                                     | E-3  | <i>Perognathus</i>     | 0220          | 20    | ♀   | M        | imp parous              | X      |     | X       |     |                                    |
| Dec 18                                              | W-9  | <i>P. boylii</i>       | 03220         | 29    | ♀   | M        | pregnant                | X      |     |         | X   |                                    |
|                                                     | W-13 | <i>P. boylii</i>       | 03240         | 24    | ♀   | M        | post-lactating          |        | X   |         | X   |                                    |
|                                                     | E-1  | <i>Perognathus</i>     | 0220          | RECAP |     |          |                         |        | X   |         | X   |                                    |
| Dec 19                                              | W-5  | <i>P. boylii</i>       | 03000         | 35    | ♀   | M        | pregnant                |        | X   | X       |     |                                    |
|                                                     | W-9  | <i>P. boylii</i>       | New<br>04230  | 12    | ♂   | Imm      | TND                     | X      |     | X       |     | Wounded back                       |
|                                                     | W-13 | <i>P. boylii</i>       | 03240         | RECAP |     |          |                         |        | X   |         | X   |                                    |
|                                                     | E-7  | <i>Perognathus</i>     | 0220          | RECAP |     |          |                         |        | X   |         | X   |                                    |
|                                                     | E-11 | <i>P. californicus</i> | New<br>1138   | 29    | ♂   | SAD      | TND                     | X      |     | X       |     | took to lab to prep white tail tip |
| Dec 20                                              | W-1  | <i>P. boylii</i>       | 04210         | 15    | ♂   | Imm      | TND                     |        | X   |         | X   |                                    |
|                                                     | W-1  | <i>P. boylii</i>       | 04030         | 23.5  | ♀   | M        | parous, maybe lactating |        | X   | X       |     |                                    |
| *                                                   | W-5  | <i>P. boylii</i>       | New<br>04310  | 10    | ♀   | Imm      | nullip                  |        | X   |         | X   | Tung. Wounded back better side     |
|                                                     | W-9  | <i>P. boylii</i>       | 04040         | 25    | ♀   | Late SAD | nullip, maybe preg.     | X      |     | X       |     |                                    |
|                                                     | W-13 | <i>P. boylii</i>       | 03240         | RECAP |     |          |                         |        | X   |         | X   |                                    |
| Caught in pitcan at W-2 and released back to inside |      |                        |               |       |     |          |                         |        |     |         |     |                                    |











Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA - GRID MC-1      Heaps only

|             | St.  | Species      | No.    | Wt. | Sex | Age | Bdyg    | CAUGHT |     | RELEASED |     |                        |
|-------------|------|--------------|--------|-----|-----|-----|---------|--------|-----|----------|-----|------------------------|
|             |      |              |        |     |     |     |         | IN     | OUT | IN       | OUT |                        |
| Nov 10 (am) | W-4  | Eusatia      | N 010  |     | ?   | M   | ?       | X      |     | X        |     |                        |
|             | W-4  | Batrachoseps |        |     |     |     |         |        | X   | X        |     | too small to mark      |
| Nov 14      | W-4  | Batrachoseps |        |     |     | M   |         |        | X   | X        |     | " " "                  |
|             | W-8  | "            |        |     |     | M   |         |        | X   | -        |     | DEAD? left under stump |
| Nov 17      | W-10 | Eusatia      | N 020  |     |     | M   |         | X      |     | X        |     |                        |
|             | W-10 | Taricha      | N 010  |     |     | M   | knustud |        | X   |          | X   |                        |
|             | W-4  | Eusatia      | N 030  |     | ?   | M   |         | X      |     | X        |     |                        |
|             | W-4  | Eusatia      | N 040  |     | ?   | M   |         |        | X   |          | X   |                        |
|             | E-10 | Eusatia      | N 0100 |     |     | Imm |         | X      |     | X        |     |                        |
|             | E-10 | Eusatia      | N 0110 |     |     | M   |         | X      |     | X        |     |                        |











RIBBLE D.D.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA; GRID RC-1. (p1)

| Date       | Trap Station | Species         | No                                                | Wt.   | Sex | Age     | Brd        | Caught going IN, OUT | Released IN, OUT |                                                 |
|------------|--------------|-----------------|---------------------------------------------------|-------|-----|---------|------------|----------------------|------------------|-------------------------------------------------|
| Oct. 3     | E-5          | Perognathus     | New 0230                                          | 23    | ♀   | M       | imp parous | X                    |                  | Released on wrong side                          |
|            | E-7          | R. megalotis    | New 0120                                          | 8     | ♂   | M       | TND        | X                    | X                |                                                 |
| W-10 0130  | E-7          | S. townbridgei  | Cat # 785                                         | 5.2g  | ♂   |         |            |                      | X                | Trap mortality                                  |
|            | E-9          | P. californicus | 1944 tagged for ear, removed tag from it ear 1015 | 38    | ♂   | M       | scrotal    | X                    | X                | Blood, ear, saliva collected                    |
| W-10 0130  | W-4          | P. boylii       | New 0310                                          | 12    | ♂   | Imm     | TND        | X                    | X                | tried to get back on other side                 |
|            | W-5          | Perognathus     | New 0240                                          | 32    | ♂   | M       | TND        |                      | X                | X                                               |
| 02110      | W-7          | Perognathus     | 0220                                              | 28    | ♂   | M       | TND        |                      | X                | X                                               |
| 02130      | W-9          | P. californicus | 835                                               | 47    | ♀   | M       | lactating  | X                    | X                | Since lactating returned to same side of fence. |
| 02145      | Oct 3 W-1    | P. boylii       | New 03120                                         | 12    | ♀   | Imm     | nullip     | X                    | X                |                                                 |
| (Pm)       | W-3          | Perognathus     | New 0310                                          | 25    | ♂   | M       | TND        |                      | X                | X                                               |
|            | W-5          | Perognathus     | 0220                                              | Recap |     |         |            | X                    | X                |                                                 |
|            | W-9          | P. californicus | 835                                               | Recap |     |         | lactating  | X                    | X                | Dusted Green                                    |
| Oct 4 (am) | W-3          | P. californicus | (0120) Ear clip 1945                              | 31.5  | ♂ ♀ | Sub Imm | TND        |                      | X                | X                                               |
|            | W-3          | Perognathus     | 0310                                              | Recap |     |         |            | X                    | X                |                                                 |
|            | W-5          | Perognathus     | 0220                                              | Recap |     |         |            |                      | X                | X                                               |
|            | W-9          | P. californicus | 835                                               | Recap |     |         | lactating  |                      | X                | X                                               |
|            | E-5          | P. californicus | 1944                                              | Recap |     |         |            | X                    | X                | Along fence                                     |
|            | E-7          | S. townbridgei  | Cat 786                                           | 4.5   | ♂   |         |            | X                    |                  | Mortality                                       |
| Oct 4 (Pm) | W-1          | Perognathus     | 0310                                              | Recap |     |         |            |                      | X                | X                                               |
|            | W-7          | Perognathus     | 0220                                              | Recap |     |         |            | X                    | X                |                                                 |
|            | W-9          | P. boylii       | New 0310                                          | 27    | ♂   | M       | scrotal    | X                    | X                |                                                 |
| Oct 5      | W-3          | Perognathus     | 0310                                              | Recap |     |         |            | X                    | X                |                                                 |
|            | W-7          | Perognathus     | 0220                                              | Recap |     |         |            |                      | X                | X                                               |
|            | E-1          | P. boylii       | New 03140                                         | 13.5  | ♀   | Imm     | nullip     |                      | X                | X                                               |
|            | E-7          | Perognathus     | 0230                                              | Recap |     |         |            | X                    | X                | escaped to end of fence towards                 |





JOURNAL - DRIFT FENCE DATA

DRIFT FENCE DATA - GRID RC-1 (p2)

[illegible]

22



RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA; GRID RC-1

|             | Trap Station                                 | Species         | No            | Wt.   | Sex | Age    | Brd                   | CAUGHT |     | RELEASED |                                        |
|-------------|----------------------------------------------|-----------------|---------------|-------|-----|--------|-----------------------|--------|-----|----------|----------------------------------------|
|             |                                              |                 |               |       |     |        |                       | IN     | OUT | IN       | OUT                                    |
| Oct 12 (PM) | E-5                                          | Perognathus     | 0230          | 22.0  | ♀   | mature | imp<br>postern        | X      |     | X        |                                        |
|             | E-7                                          | Perognathus     | New<br>0410   | 31.0  | ♀   | mature | breeding-<br>pregnant | X      |     |          | X                                      |
|             | W-7                                          | R. megalotis    | New<br>0220   | 10.5  | ♂   | mature | TND                   |        | X   |          | X                                      |
|             | W-4                                          | Perognathus     | 0340          | 20g   | ♀   | mature | imp<br>postern        | X      |     | X        |                                        |
|             | W-3                                          | Thomomys bottae | Cat No<br>790 | 80g   | ♀   | M      | imp,<br>postern       | X      |     | -        | ✕ killed                               |
|             | W-1                                          | Perognathus     | 0220          | 27    | ♂   | mat.   | TND                   |        | X   |          | X                                      |
|             | W-1                                          | Perognathus     | 0310          | 24.5  | ♂   | Mat    | TND                   | X      |     | X        | went<br>around<br>fence. smart<br>boy. |
| Oct 13 (am) | E-5                                          | Perognathus     | 0230          | RECAP |     |        |                       |        | X   |          | X                                      |
|             | E-5                                          | P. maniculatus  | 01230         | 17g   | ♂   | mat    | TND<br>(core)         | X      |     | X        |                                        |
|             | W-5                                          | Perognathus     | 0340          | RECAP |     |        |                       |        | X   |          | X                                      |
|             | W-3                                          | Perognathus     | 0310          | RECAP |     |        |                       |        | X   |          | X                                      |
|             | W-1                                          | Perognathus     | 0220          | RECAP |     |        |                       | X      |     | X        |                                        |
| Oct 13 (PM) | Traps not set in order to do Radio-tracking. |                 |               |       |     |        |                       |        |     |          |                                        |
| Oct 14 (AM) | "                                            | "               | "             | "     | "   | "      | "                     |        |     |          |                                        |
| Oct 15 (AM) | "                                            | "               | "             | "     | "   | "      | "                     |        |     |          |                                        |
| Oct 16 (AM) | "                                            | "               | "             | "     | "   | "      | "                     |        |     |          |                                        |
| Oct 16 (PM) | E-1                                          | P. boylii       | New<br>03310  | 35g   | ♀   | M      | pregnant              |        | X   | X        |                                        |
|             | E-5                                          | Perognathus     | 0230          | RECAP |     |        |                       | X      |     | X        |                                        |
|             | W-7                                          | Perognathus     | 0340          | RECAP |     |        |                       |        | X   |          | X                                      |
|             | W-4                                          | R. megalotis    | 0230          | RECAP |     |        |                       | X      |     | X        |                                        |
|             | W-3                                          | Perognathus     | New<br>0440   | 25    | ♀   | M      | Lactating             | X      |     |          | X prob.<br>lactating                   |
| Oct 17 (AM) | E-5                                          | Perognathus     | 0230          | RECAP |     |        |                       |        | X   |          | X                                      |
|             | E-5                                          | P. maniculatus  | 01230         | RECAP |     |        |                       | X      |     | X        |                                        |
|             | W-9                                          | R. megalotis    | New<br>0300   |       | ♀   | M      | pregnant              |        | X   | X        |                                        |
|             | W-5                                          | R. megalotis    | New<br>0310   | 8.5   | ♂   | M      | TND                   | X      |     | X        |                                        |
|             | W-4                                          | Perognathus     | 0340          | RECAP |     |        |                       | X      |     | X        |                                        |
|             | W-3                                          | Perognathus     | 0440          | RECAP |     |        |                       | X      |     |          | X lactating                            |
|             | W-1                                          | Perognathus     | 0310          | RECAP |     |        |                       | X      |     | X        | Went around<br>end of fence            |





RIBBLE, D.O.  
1997

JOURNAL - DRIFT FENCE DATA

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID RC-1.

|             | Trap station                     | Species                                | No.       | Wt.   | Sex | Age | Bdg.                    | CAUGHT |     | RELEASED |         |                             |
|-------------|----------------------------------|----------------------------------------|-----------|-------|-----|-----|-------------------------|--------|-----|----------|---------|-----------------------------|
|             |                                  |                                        |           |       |     |     |                         | IN     | OUT | IN       | OUT     |                             |
| Oct 18      | Took day off - left traps closed |                                        |           |       |     |     |                         |        |     |          |         |                             |
| Oct 19 (am) | E-7                              | Perognathus                            | 0230      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | E-7                              | <del>P. boylii</del><br>P. maniculatus | 01230     | 15    | ♂   | m   | TND                     |        | X   |          | —       | Mortality Cat # 791         |
|             | E-9                              | N. fuscipes                            | New 1956  | Bj    | ♂   | m   | TND                     |        | X   |          | X       |                             |
|             | W-9                              | R. megalotis                           | 0300      | RECAP |     |     | Drugant ??              |        | X   | X        |         |                             |
|             | W-9                              | Perognathus                            | 0340      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-7                              | P. boylii                              | New 03320 | 16    | ♀   | Imm | imp., nullip.           |        | X   |          | X       | tried to get back in        |
|             | W-4                              | Perognathus                            | 0220      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-4                              | P. boylii                              | New 03330 | 17    | ♂   | Imm | TND                     |        | X   |          | X       |                             |
|             | W-3                              | Perognathus                            | 0310      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-1                              | Perognathus                            | 0340      | RECAP |     |     |                         | X      |     |          | m. hole | Tarpid - put in pouch       |
| Oct 20 (am) | E-7                              | S. townsendi                           | Cat # 792 | 5g    | ♂   | M   | Breeding                |        | X   |          | —       | Mortality                   |
|             | E-10                             | Perognathus                            | 0230      | RECAP |     |     |                         | X      |     | X        |         | Escaped to the end of fence |
|             | W-9                              | Perognathus                            | 0340      | RECAP |     |     |                         |        | X   |          | X       |                             |
|             | W-9                              | P. boylii                              | New 03340 | 28    | ♀   | m   | Lactating               | X      |     |          | X       |                             |
|             | W-7                              | P. boylii                              | 03320     | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-7                              | R. megalotis                           | 0300      | RECAP |     |     | not-lactating post-lact |        | X   |          | X       |                             |
|             | W-5                              | Perognathus                            | 0330      | RECAP |     |     |                         |        | X   |          | X       |                             |
|             | W-4                              | Perognathus                            | 0240      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-4                              | Perognathus                            | 0220      | RECAP |     |     |                         |        | X   |          | X       |                             |
|             | W-3                              | Perognathus                            | 0310      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | W-1                              | Perognathus                            | 0440      | RECAP |     |     |                         |        | X   |          | X       |                             |
| Oct 21      | E-7                              | Perognathus                            | 0410      | RECAP |     |     |                         | X      |     | X        |         |                             |
|             | E-9                              | Perognathus                            | 0230      | RECAP |     |     |                         |        | X   |          | X       |                             |
|             | W-9                              | P. boylii                              | 03330     | RECAP |     |     |                         | X      |     | X        |         |                             |





RIBBLE, D.D.  
1987

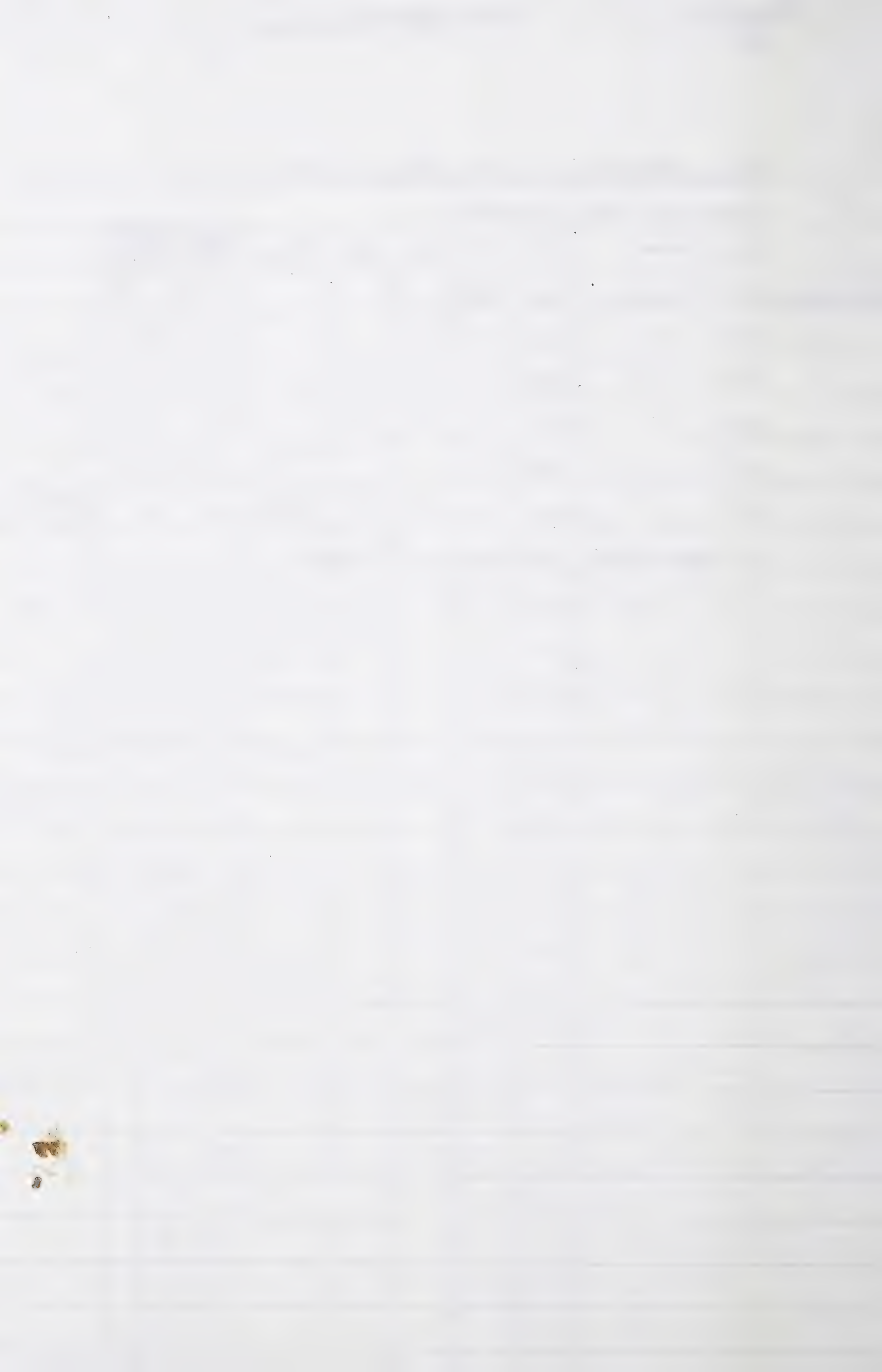
JOURNAL - DRIFT FENCE DATA

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID 12C

|               | Trap<br>Station | Species     | No.  | Wt.   | Sex | Age | Bridg                  | Caught<br>going |     | Released<br>going |     |                                      |
|---------------|-----------------|-------------|------|-------|-----|-----|------------------------|-----------------|-----|-------------------|-----|--------------------------------------|
|               |                 |             |      |       |     |     |                        | IN              | OUT | IN                | OUT |                                      |
| Oct 21 (cont) | W-5             | Perognathus | 0220 | RECAP |     |     |                        |                 | X   |                   | X   |                                      |
|               | W-4             | "           | 0340 | "     |     |     |                        | X               |     | X                 |     |                                      |
|               | W-4             | "           | 0330 | "     |     |     |                        |                 | X   |                   | X   |                                      |
|               | W-3             | "           | 0310 | "     |     |     |                        | X               |     | X                 |     |                                      |
|               | W-3             | "           | 0240 | "     |     |     |                        |                 | X   |                   | X   |                                      |
|               | W-1             | "           | 0440 | "     | ♀   | M   | parous<br>post-lactate | X               |     | X                 |     | Escaped to<br>hole @ end of<br>fence |

All traps closed & passageways left open





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA (1)

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID RC:1

|                 | Station | Species         | No.                              | Wt.     | Sex | Age                        | Reprod                                         | Caught<br>IN | Out | Released<br>IN | Out |                                      |
|-----------------|---------|-----------------|----------------------------------|---------|-----|----------------------------|------------------------------------------------|--------------|-----|----------------|-----|--------------------------------------|
| Nov-3(am)       | E-5     | P. boylii       | New<br>D3400                     | 16      | ♀   | Imm                        | imp<br>nullip                                  |              | X   |                | X   |                                      |
|                 | E-7     | P. boylii       | NEW<br>D3410                     | 20      | ♂   | Sub                        | close                                          | X            |     | X              |     |                                      |
|                 | W-9     | P. boylii       | D2210                            | 24(1/2) | ♂   | M                          | scrotal                                        |              | X   |                | X   |                                      |
|                 | W-9     | S. townsendii   | Cat #<br>795                     | 5g      | ♂   | M                          | breeding                                       | X            |     |                |     | Mortality                            |
|                 | W-5     | Microtus        | New<br>D140                      | 39g     | ♀   | M                          | perforate,<br>perhaps<br>lactating<br>pregnant |              | X   | X              |     | teats very<br>swollen                |
|                 | W-4     | P. boylii       | D3340                            | 35g     | ♀   | M                          |                                                | X            |     |                | X   | escaped to<br>bank 1m W of<br>fence  |
| Nov 3 (1500hrs) | E-3     | P. boylii       | D3400                            | RECAP   |     |                            |                                                | X            |     | X              |     |                                      |
| Nov 3 (late PM) | W-9     | P. boylii       | D2210                            | RECAP   |     |                            |                                                | X            |     | X              |     |                                      |
|                 | W-4     | Stowbridgei     | New<br>D340                      | 55      | ♂?  |                            |                                                | X            |     | X              |     |                                      |
|                 | W-3     | P. californicus | New<br>1970                      | 34      | ♂   | M                          | TND(close)                                     | X            |     | X              |     | watched head<br>to end of fence; in. |
|                 | W-1     | Perognathus     | D440                             | 26      | ♀   | M                          | imp<br>parous                                  |              | X   |                | X   |                                      |
| Nov 4 (am)      | E-3     | P. boylii       | New<br>D4030<br><del>D3400</del> | 19.5    | ♀   | early<br>SAD               | nullip                                         | X            |     | X              |     |                                      |
|                 | E-3     | " "             | New<br>D4040                     |         | ♂   | SAD                        | TND                                            |              | X   |                | X   | watched<br>back across               |
|                 | E-9     | Perognathus     | D230                             | 22      | ♀   | M                          | imp<br>parous                                  | X            |     | X              |     |                                      |
|                 | W-9     | Microtus        | PTC<br>D100                      | 59      | ♂   | M                          | TND                                            | X            |     | X              |     |                                      |
|                 | W-9     | S. townsendii   | New<br>D400                      | 5       | ?   |                            |                                                |              | X   |                | X   |                                      |
|                 | W-4     | P. californicus | 1970                             | RECAP   |     |                            |                                                |              | X   |                | X   | Blood, ear,<br>saliva collected      |
|                 | W-3     | S. latrans      | Cat No.<br>796                   | 64      | ♂   | M                          | breeding                                       | X            |     | -              |     | killed snow<br>under fence.          |
|                 | W-1     | Perognathus     | D440                             |         |     | (didn't examine<br>animal) | RECAP                                          | X            |     | X              |     |                                      |
| Nov 4 (pm)      | E-5     | P. boylii       | D4030                            | RECAP   |     |                            |                                                |              | X   |                | X   |                                      |
|                 | E-10    | Perognathus     | D230                             | RECAP   |     |                            |                                                |              | X   |                | X   | Went around<br>end                   |
|                 | W-4     | P. boylii       | D3340                            | RECAP   |     |                            | Pregnant                                       | X            |     |                | X   |                                      |
|                 | W-3     | Perognathus     | D440                             | RECAP   |     |                            |                                                | X            |     | X              |     |                                      |
| Nov 5 (am)      | E-7     | S. townsendii   | Cat #<br>797                     | 5       | ?   |                            |                                                | X            |     | -              |     | Mortality in<br>pit fall             |
|                 | E-7     | Perognathus     | D230                             | 22      |     | RECAP                      |                                                |              | X   |                | X   |                                      |





ZIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA (2)

Hastings Natural History Reservation, Monterey Co., Calif.

DRIFT FENCE DATA GRID RC-1

|                 | Station | Species             | No.                         | Wt.                       | Sex | Age | Bldg                     | Caught<br>IN | OUT          | Released<br>IN | OUT          |                                     |
|-----------------|---------|---------------------|-----------------------------|---------------------------|-----|-----|--------------------------|--------------|--------------|----------------|--------------|-------------------------------------|
| Nov 5 (am cont) | W-7     | Perognathus         | <sup>pte</sup><br>0340      | Should have weighed, etc. |     |     |                          |              | X            |                | X            |                                     |
|                 | W-3     | Perognathus         | 0440                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
| Nov 6 (am)      | E-7     | Perognathus         | 0230                        | Recap                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-9     | <u>R. megalotis</u> | <sup>New</sup><br>0330      | 10                        | ♂   | M   | TND                      | X            |              | X              |              | wanted back.                        |
|                 | W-4     | P. boylii           | 03340                       | RECAP                     |     |     |                          |              | Purgat       | X              |              | X                                   |
|                 | W-3     | Perognathus         | 0220                        | 27                        | ♂   | M   | TND                      |              | X            |                | X            |                                     |
|                 | W-1     | Perognathus         | 0440                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
| Nov. 7 (am)     | E-5     | Perognathus         | 0230                        | RECAP                     |     |     |                          |              |              | X              |              | X                                   |
|                 | W-9     | <u>S. latimanus</u> | <sup>Cat. no.</sup><br>0300 | 77.5                      | ♂   | M   | breeding                 |              | X            |                |              | sacrificed,<br>tumbling<br>at fence |
|                 | W-7     | <u>R. megalotis</u> | 0330                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-7     | " "                 | <sup>pte</sup><br>0230      | 12                        | ♂   | M   | TND                      |              |              | X              |              | X                                   |
|                 | W-4     | Perognathus         | 0240                        | 31                        | ♂   | M   | TND                      | X            |              | X              |              |                                     |
|                 | W-3     | Perognathus         | 0220                        | Recap                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-3     | Perognathus         | 0440                        | Recap                     |     |     |                          |              |              | X              |              | X                                   |
| Nov 8 (am)      | E-9     | Perognathus         | 0230                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-9     | Perognathus         | 0340                        | RECAP ♀                   |     |     |                          | M            | imp          | X              |              | X                                   |
|                 | W-9     | <u>P. boylii</u>    | <sup>pte</sup><br>02210     | 24.5                      | ♂   | M   | scrotal                  |              |              | X              |              | X                                   |
|                 | W-4     | P. boylii           | 02340                       |                           | ♀   | M   | Purgat                   | X            |              |                |              | X                                   |
|                 | W-4     | Perognathus         | 0220                        | RECAP                     |     |     |                          |              | <del>X</del> | X              | <del>X</del> | X                                   |
|                 | W-3     | Perognathus         | 0440                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-1     | Perognathus         | 0240                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
| Nov 9 (am)      | E-3     | Perognathus         | 0410                        | 26                        | ♀   | M   | <sup>imp</sup><br>Parous | X            |              | X              |              |                                     |
|                 | E-7     | Perognathus         | 0230                        | RECAP                     |     |     |                          |              | X            |                | X            |                                     |
|                 | W-1     | Perognathus         | 0440                        | <sup>Recap</sup><br>25    | ♀   | M   | <sup>imp</sup><br>Parous | X            |              | X              |              |                                     |
|                 | W-3     | Perognathus         | 0240                        | RECAP                     |     |     |                          |              |              | X              |              | X                                   |





RIBBLE, D.D.  
1987

JOURNAL - DRIFT FENCE DATA (3)

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA GRID RE-1.

|                  | St.  | Species      | No.                 | Wt.          | Sex | Age      | Brdg      | CAUGHT |     | RELEASED |     |                             |
|------------------|------|--------------|---------------------|--------------|-----|----------|-----------|--------|-----|----------|-----|-----------------------------|
|                  |      |              |                     |              |     |          |           | IN     | OUT | IN       | OUT |                             |
| Nov. 9 (am-cont) | W-4  | P. boylii    | 03340               | Recap.<br>27 | ♀   | IM       | Lactating | X      |     |          | X   |                             |
|                  | W-7  | Perognathus  | 0220                | RECAP        |     |          |           | X      |     | X        |     |                             |
|                  | W-9  | Perognathus  | 0340                | RECAP        |     |          |           |        | X   |          | X   |                             |
|                  | W-11 | R. megalotis | 0230                | RECAP        |     |          |           | X      |     | X        |     | } both caught in same trap  |
|                  | W-11 | R. megalotis | 0300                | RECAP ♀      | IM  | imm pair |           | X      |     | X        |     |                             |
| Nov 10 (am)      | E-5  | Perognathus  | 0410                | RECAP        |     |          |           |        | X   |          | X   |                             |
|                  | E-7  | Perognathus  | 0230                | RECAP        |     |          |           |        | X   |          | X   |                             |
|                  | E-10 | P. boylii    | New<br>04200        | 17           | ♀   | Imm      | Nullip    |        | X   |          | X   |                             |
|                  | W-9  | Perognathus  | 0340                | RECAP        |     |          |           | X      |     | X        |     |                             |
|                  | W-4  | P. boylii    | 03340               | Recap        |     |          | Lactating | X      |     |          | X   |                             |
|                  | W-4  | Perognathus  | 0220                | RECAP        |     |          |           |        | X   |          | X   |                             |
|                  | W-3  | Perognathus  | 0240                | RECAP        |     |          |           | X      |     | X        |     |                             |
|                  | W-1  | Perognathus  | 0440                | RECAP        |     |          |           |        | X   |          | X   |                             |
| Nov 11 (am)      | W-1  | Perognathus  | 0440                | RECAP        |     |          |           |        | X   |          | X   |                             |
| Nov 11 (am) 0220 | W-4  | Perognathus  | 0220                | RECAP        |     |          |           | X      |     | X        |     |                             |
| Nov 11 (am) 0340 | W-4  | R. megalotis | New<br>0340         | 9.5          | ♂   | IM       | scrotal   |        | X   |          | X   | wanted back                 |
| Nov 11 (am) 0400 | W-7  | Perognathus  | 0240                | RECAP        |     |          |           | X      |     | X        |     |                             |
| Nov 11 (am) 0400 | W-7  | R. megalotis | 0330                | RECAP        |     |          |           |        | X   |          | X   |                             |
| Nov 11 (am) 0410 | W-9  | Perognathus  | Cat No. 003<br>0340 | RECAP        |     |          | MORTALITY | X      |     |          |     | Taxidermist - put in pocket |
|                  | W-11 | P. boylii    | New<br>04210        | 28           | ♀   | IM       | Lactating | X      |     |          | X   | tail shortened apparently   |
|                  | E-3  | Perognathus  | 0410                | RECAP        |     |          |           | X      |     | X        |     |                             |
|                  | E-10 | Perognathus  | 0230                | RECAP        |     |          |           | X      |     | X        |     |                             |





RIBBLE, D.O.  
1987

# Journal Drift Fence Data

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID RC-1.

|         | St.     | SPD.                   | No.                     | Wt.   | Sex | Age            | Brdg                      | CAUGHT |     | RELEASED     |     |                                                               |
|---------|---------|------------------------|-------------------------|-------|-----|----------------|---------------------------|--------|-----|--------------|-----|---------------------------------------------------------------|
|         |         |                        |                         |       |     |                |                           | IN     | OUT | IN           | OUT |                                                               |
| Nov. 12 | E-7     | Perognathus            | 0230                    | 20.5  | ♀   | M              | Panous<br>imp             | X      |     | X            |     |                                                               |
|         | E-7     | Perognathus            | 0410                    | 26    | ♀   | M              | nullip(?)<br>imp          |        | X   |              | X   |                                                               |
|         | E-10    | <u>P. californicus</u> | <sup>New</sup><br>1975  | 25    | ♀   | Imm            | nullip                    |        | X   |              | X   | tissues collected                                             |
| 04330   | W-9     | P. boylii              | 03340                   | 26    | ♀   | M              | lactating                 | X      |     |              | X   |                                                               |
| 0410    | W-7     | R. megalotis           | 0230                    | 11    | ♂   | M              | TND                       | X      |     | X            |     |                                                               |
| 0430    | W-4     | Perognathus            | 0240                    | 32    | ♂   | M              | TND                       |        | X   |              | X   |                                                               |
| 0410    | W-1     | Perognathus            | 0440                    | 25    | ♀   | M              | imp,<br>Panous            |        | X   |              | X   |                                                               |
|         | Nov. 13 | <u>P. californicus</u> | 1931                    | 44    | ♀   | M              | <u>Lactating</u>          | X      | X   |              |     | Dusted ORAL<br>GE                                             |
|         | E-5     | Perognathus            | 0410                    | 26    | ♀   | M              | imp,<br>nullip, panous(?) | X      |     | X            |     |                                                               |
|         | E-7     | Perognathus            | <sup>NEW</sup><br>01100 | 25    | ♂   | M              | TND                       |        | X   |              | X   |                                                               |
|         | E-7     | Perognathus            | 0230                    | RECAP |     |                |                           | X      |     | <del>X</del> |     | Torpid, dead.<br>Gone to 163 student.                         |
|         | E-9     | <u>P. californicus</u> | <sup>NEW</sup><br>1977  | 27    | ♂   | SAD            | TND.                      | X      |     | X            |     | tissues<br>collected                                          |
|         | W-11    | P. boylii              | 04210                   | 27    | ♀   | M              | lactating                 | X      |     |              | X   |                                                               |
|         | W-11    | R. megalotis           | <sup>ptc</sup><br>0300  | 11    | ♀   | M              | Perf.<br>prognat(?)       |        | X   |              | X   |                                                               |
|         | W-7     | Perognathus            | 0220                    | 26    | ♂   | M              | TND                       |        | X   |              | X   |                                                               |
|         | W-4     | P. boylii              | 03340                   | RECAP |     |                | lactating                 | X      |     |              | X   |                                                               |
|         | W-3     | Perognathus            | 0440                    | RECAP |     |                |                           |        | X   |              | X   |                                                               |
|         | W-3     | Perognathus            | 0240                    | RECAP |     |                |                           | X      |     | X            |     |                                                               |
| Nov 14  | W1      | Perognathus            | 0240                    | RECAP |     |                |                           |        | X   |              | X   |                                                               |
|         | W3      | <u>P. californicus</u> | 1917                    | 42    | ♀   | m              | lactating                 |        | X   | X            |     | Tissue collected<br>bled in field.<br>Dusted w/ Red<br>Powder |
|         | W3      | Perognathus            | 0410                    | RECAP |     |                |                           | X      |     | X            |     |                                                               |
|         | W4      | P. boylii              | 03340                   | RECAP |     |                | lactating                 | X      |     | X            |     |                                                               |
|         | W5      | Perognathus            | 0220                    | RECAP |     |                |                           | X      |     | X            |     |                                                               |
|         | W-M     | M. californicus        | <sup>ptc</sup><br>0140  | 40g   | ♀   | perf<br>panous |                           |        | X   |              | X   |                                                               |
|         | E-3     | Perognathus            | 0230                    | RECAP |     |                |                           |        | X   |              | X   |                                                               |





RIBBLE, D.E.  
1987

# JOURNAL-DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID DC+

|               | St.  | Species      | NO<br><del>1978</del>     | WT<br><del>g</del> | SEX<br><del>#</del> | Age     | Bdgs           | CAUGHT<br>IN OUT | RELEASED<br>IN OUT |                                     |
|---------------|------|--------------|---------------------------|--------------------|---------------------|---------|----------------|------------------|--------------------|-------------------------------------|
| Nov 14 (cont) | E-5  | Neotoma      | Nov<br>1978               |                    | ♂                   | m       | TND            | X                |                    | X                                   |
|               | E-7  | Perognathus  | 0410                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-7  | S. latimanus | —                         |                    | ♂                   | m       | TND            | X                | —                  |                                     |
|               |      |              |                           |                    |                     |         |                |                  |                    | Killed's<br>given to 163<br>student |
| Nov 15        | W-1  | Perognathus  | 0240                      | RECAP              |                     |         |                | X                | X                  |                                     |
|               | W-1  | Perognathus  | 0440                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-3  | R. megalotis | 0310                      | 10g                | ♂                   | RECAP m | TND            | X                | X                  |                                     |
|               | W-4  | P. boylii    | 03340                     | RECAP              |                     |         | lactating      | X                |                    | X                                   |
|               | W-4  | Perognathus  | 0330                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-5  | Perognathus  | 0220                      | RECAP              |                     |         |                | X                | X                  |                                     |
|               | W-11 | R. megalotis | 0300                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-11 | P. boylii    | 04210                     | RECAP              |                     |         | lactating      | X                |                    | X                                   |
|               | E-7  | Perognathus  | 0230                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | E-9  | Neotoma      | 1978                      | RECAP              |                     |         |                |                  | X                  | X                                   |
| Nov 15 (am)   | W-1  | Perognathus  | 0440                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-4  | P. boylii    | 03340                     | RECAP              |                     |         | lactating      | X                |                    | X                                   |
|               | E-7  | Perognathus  | 0230                      | RECAP              |                     |         |                |                  | X                  | X                                   |
| Nov 16 (am)   | W-3  | Perognathus  | 0440                      | RECAP              |                     |         |                | X                |                    | X                                   |
|               | W-11 | R. megalotis | 0230                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-11 | R. megalotis | New<br>0400               | 8.5                | ♀                   | SAD     | unp<br>nullip  |                  | X                  | X                                   |
|               | W-7  | R. megalotis | 0330                      | RECAP              |                     |         |                | X                |                    | X                                   |
|               | W-5  | Perognathus  | 0240                      | RECAP              |                     |         |                |                  | X                  | X                                   |
|               | W-4  | P. boylii    | 03340<br><del>04210</del> | 27                 | ♀                   | M       | post-lactating | X                |                    | X                                   |
|               | E-9  | N. fuscipes  | 1978                      | RECAP              |                     |         |                | X                | X                  |                                     |
| Nov 16 (am)   | E-7  | P. boylii    | New<br>04320              | 10                 | ♂                   | imm     | TND            |                  | X                  | X                                   |

} caught in  
same  
trap





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA GRID 12C1

|        | St. | Spp.            | No            | Wt    | Sex | Age                  | Body                    | CAUGHT |     | RELEASED |     |                              |
|--------|-----|-----------------|---------------|-------|-----|----------------------|-------------------------|--------|-----|----------|-----|------------------------------|
|        |     |                 |               |       |     |                      |                         | IN     | OUT | IN       | OUT |                              |
| Nov 17 | E-9 | N. fuscipes     | 1978          |       |     |                      |                         | X      |     | X        |     |                              |
|        | W-9 | Microtus        | New<br>0230   | 56    | ♀   | IM                   | perf. pram<br>pregnant? | X      |     |          | X   |                              |
|        | W-5 | R. megalotis    | 0230          | RECAP |     |                      |                         |        | X   |          | X   |                              |
|        | W-4 | P. boylii       | New<br>04340  | 19    | ♀   | Imm                  | nullip                  | X      |     | X        |     |                              |
|        | W-3 | Perognathus     | 0430?<br>0440 | RECAP |     |                      |                         | X      |     | X        |     |                              |
|        | W-1 | Perognathus     | 0440          | RE    |     |                      |                         | X      |     | X        |     |                              |
|        | W-1 | R. megalotis    | 0440          | 11.5  | ♂   | M                    | scrotal                 |        | X   |          | X   | went around<br>end, back in. |
| Nov 18 | E-9 | N. fuscipes     | 1978          |       |     |                      |                         |        | X   |          | X   |                              |
|        | W-9 | P. boylii       | 02210         | 25    | ♂   | IM                   | scrotal                 |        | X   |          | X   |                              |
|        | W-5 | Perognathus     | 0240          | RECAP |     |                      |                         |        | X   |          | X   |                              |
|        | W-4 | P. californicus | New<br>1983   | 31    | ♂   | SAD                  | TND                     | X      |     | X        |     | Tissues collected            |
|        | W-1 | Perognathus     | 0440          |       |     |                      |                         | X      |     | X        |     |                              |
| Nov 19 | E-3 | P. boylii       | New<br>04400  | 15    | ♀   | Imm                  | nullip                  |        | X   |          | X   |                              |
|        | W-9 | P. californicus | 1983          | 32    | ♂   | SAD<br><del>IM</del> | TND                     | X      |     | X        |     | eye ins.                     |
|        | W-3 | Perognathus     | 0440          | RECAP |     |                      |                         | X      |     | X        |     |                              |
|        | W-1 | Perognathus     | 0240          | "     |     |                      |                         |        | X   |          | X   |                              |

Traps closed & doorways left open





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif

DRIFT FENCE GRID RC

|               | St.  | Spp.                   | No.           | Wt.    | Sex | Age          | Brdg          | CAUGHT |     | RELEASED |     |                                          |
|---------------|------|------------------------|---------------|--------|-----|--------------|---------------|--------|-----|----------|-----|------------------------------------------|
|               |      |                        |               |        |     |              |               | IN     | OUT | IN       | OUT |                                          |
| Nov. 24       | E-5  | <i>P. boylii</i>       | New<br>04420  | 16     | ♂   | Imm          | TND           | X      |     | X        |     |                                          |
| 090           | E-7  | <i>Perognathus</i>     | 0230          | 22     | ♀   | M            | imp,<br>paras |        | X   |          | X   |                                          |
| W-01110       | E-9  | <i>N. fuscipes</i>     | 1978          |        |     | M            |               | X      |     | X        |     |                                          |
| 0430          | W-11 | <i>P. boylii</i>       | New<br>04440  | 18     | ♂   | Imm          | TND           | X      |     | X        |     | wanted back                              |
| 01000<br>0430 | W-9  | <i>R. megalotis</i>    | 0330          | 8      | ♂   | M            | TND           | X      |     | X        |     |                                          |
| W-7           | W-7  | <i>Perognathus</i>     | 0240          | 30     | ♂   | M            | TND           | X      |     | X        |     |                                          |
| 0340          | W-7  | <i>R. megalotis</i>    | 0310          | 10     | ♂   | M            | TND (dmg)     |        | X   |          | X   |                                          |
|               | W-5  | <i>P. boylii</i>       | New<br>010    | 15     | ♂   | Imm          | TND           | X      |     | X        |     |                                          |
|               | W-4  | <i>P. californicus</i> | 1983          | 30     | ♂   | M            | TND           | X      |     | X        |     | Taped, put in<br>pocket                  |
|               | W-4  | <i>Microtus</i>        | 0300          | 24     | ♀   | SAD          | nullip        |        | X   |          | X   |                                          |
|               | W-3  | <i>P. boylii</i>       | New<br>020    | 14     | ♀   | Imm          | nullip        |        | X   |          | X   |                                          |
|               | W-1  | <i>Perognathus</i>     | 0440          | 24     | ♀   | M            | imp,<br>paras |        | X   |          | X   |                                          |
|               | W-1  | <i>P. boylii</i>       | New<br>030    | 21     | ♀   | early<br>SAD | nullip        | X      |     | X        |     |                                          |
| Nov. 25       | E-7  | <i>S. townsendi</i>    | Cat No<br>804 | 52g    |     |              |               | X      |     | -        |     | Mortality                                |
|               | E-9  | <i>N. fuscipes</i>     | 1978          | RECAP. |     |              |               | X      |     | X        |     |                                          |
|               | W-7  | <i>P. boylii</i>       | 04010         | 16     | ♂   | Imm          | TND           | X      |     | X        |     |                                          |
|               | W-4  | <i>P. maniculatus</i>  | New<br>0320   | 22     | ♀   | M            | imp,<br>paras | X      |     | X        |     |                                          |
|               | W-4  | <i>Microtus</i>        | New<br>0420   | 27     | ♂   | SAD          | TND           |        | X   |          | X   |                                          |
|               | W-3  | <i>Perognathus</i>     | 0440          | RECAP  |     |              |               |        | X   |          | X   |                                          |
|               | W-1  | <i>P. californicus</i> | 1983          | RECAP  |     |              |               | X      |     | X        |     | Went around<br>end of fence<br>into hole |
|               | W-1  | <i>Perognathus</i>     | 0240          | RECAP  |     |              |               |        | X   |          | X   |                                          |
| Nov. 26       | E-1  | <i>P. boylii</i>       | 03400         | RECAP  |     |              |               |        | X   |          | X   |                                          |
|               | E-7  | <i>Perognathus</i>     | 0230          | RECAP  |     |              |               |        | X   | X        |     | released on<br>wrong side                |
|               | E-9  | <i>N. fuscipes</i>     | 1978          | RECAP  |     |              |               | X      |     | X        |     |                                          |
|               | W-11 | <i>P. maniculatus</i>  | New<br>0330   | 15.5   | ♀   | M            | pregnant      | X      |     |          | X   |                                          |





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE RC

|                 | St.                                     | SPP.                   | No.        | wt    | Sex | Age                                                   | Bdgs             | CAUGHT       |     | RELEASE |     |                           |
|-----------------|-----------------------------------------|------------------------|------------|-------|-----|-------------------------------------------------------|------------------|--------------|-----|---------|-----|---------------------------|
|                 |                                         |                        |            |       |     |                                                       |                  | IN           | OUT | IN      | OUT |                           |
| Nov. 26 (cont.) | W-9                                     | <u>P. californicus</u> | 1907       | 27    | ♂   | SAD                                                   | TND              |              | X   |         | X   |                           |
|                 | W-9                                     | <u>S. latimanus</u>    | Cat No 800 | 71    |     |                                                       |                  |              |     |         |     | caught with mole trap     |
|                 | W-7                                     | <u>R. megalotis</u>    | 0230       | RECAP |     |                                                       |                  | X            |     | X       |     |                           |
|                 | W-5                                     | <u>Perognathus</u>     | 0330       | RECAP |     |                                                       |                  |              | X   |         | X   |                           |
|                 | W-4                                     | <u>P. californicus</u> | 1983       | RECAP |     |                                                       |                  | X            |     | X       |     |                           |
|                 | W-4                                     | <u>P. boylii</u>       | ptc 04140  | 20    | ♂   | early SAD                                             | TND              |              | X   |         | X   |                           |
|                 | W-3                                     | <u>R. megalotis</u>    | 0410       | RECAP |     |                                                       |                  |              | X   |         | X   |                           |
|                 | W-3                                     | <u>R. megalotis</u>    | New 0420   | 15    | ♀   | M.                                                    | pregnant         | X            |     |         | X   |                           |
|                 | W-3                                     | <u>S. latimanus</u>    | 806        | 70g   |     | very imp - d. too damaged to stuff - skull split open |                  |              |     |         |     | caught & mangled in trap. |
|                 | W-1                                     | <u>Perognathus</u>     | 240        | RECAP |     |                                                       |                  | X            |     | X       |     |                           |
|                 | W-1                                     | <u>Perognathus</u>     | 0440       | RECAP |     |                                                       |                  |              | X   |         | X   |                           |
|                 | ~ traps closed & left blocking passages |                        |            |       |     |                                                       |                  |              |     |         |     |                           |
| Nov 29          | E-1                                     | <u>P. boylii</u>       | 03400      | 24.0  | ♀   | sed                                                   | imp/mll          |              | X   |         | X   |                           |
|                 | E-5                                     | <u>M. californicus</u> | 0100       | 49.0  | ♀   | m                                                     | imp/pern looking |              | X   | X       |     |                           |
|                 | E-7                                     | <u>Microtus</u>        | 0240       | 20.0  | ♀   | imm                                                   | mll              | X            |     | X       |     |                           |
|                 | E-10                                    | <u>Perognathus</u>     | 0230       | 24.0  | ♀   | m                                                     | imp/per          |              | X   |         | X   |                           |
|                 | W-11                                    | <u>R. megalotis</u>    | 0330       | 16.0  | ♀   | m                                                     | pregnant         | X            |     |         | X   |                           |
|                 | W-5                                     | <u>R. megalotis</u>    | New 0430   | 7.0   | ♂   | m                                                     | TND              | <del>X</del> | X   |         | X   | scar on belly             |
|                 | W-4                                     | <u>Microtus</u>        | 0420       | 25.0  | ♂   | sed                                                   | TND              |              | X   |         | X   |                           |
|                 | W-4                                     | <u>P. moniaebatus</u>  | 0320       | 21.0  | ♀   | m                                                     | imp perf imp     | X            |     | X       |     |                           |
|                 | W-3                                     | <u>P. californicus</u> | 1983       | 32.5  | ♂   | m                                                     | TND              |              | X   |         | X   |                           |
|                 | W-1                                     | <u>Perognathus</u>     | 0440       | 23.0  | ♀   | m                                                     | imp/mll          | X            |     | X       |     |                           |
| Nov 30          | E-7                                     | <u>Perognathus</u>     | 0230       | RECAP |     |                                                       |                  |              | X   |         | X   |                           |
|                 | W-7                                     | <u>R. megalotis</u>    | 0230       | 11.5  | ♂   | m                                                     | TD               |              | X   |         | X   |                           |
|                 | W-7                                     | <u>R. megalotis</u>    | New 0440   | 10.0  | ♀   | m                                                     | part-bet. imp    | X            |     | X       |     |                           |





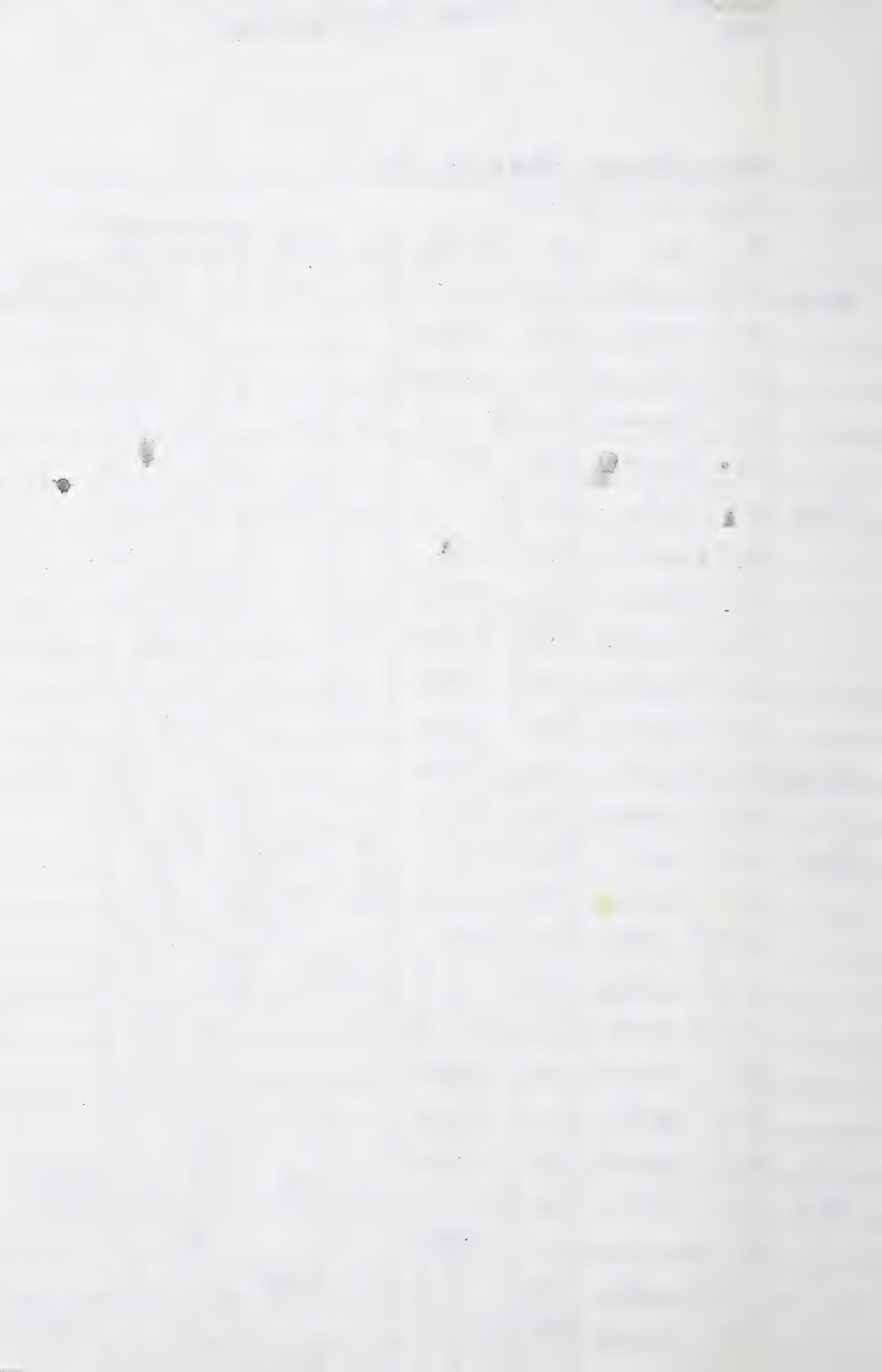
RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE: GRID RC

|            | St.  | SP.             | No.          | Wt.           | Sex | Age          | Body         | CAUGHT |     | RELEASED |     |                                   |
|------------|------|-----------------|--------------|---------------|-----|--------------|--------------|--------|-----|----------|-----|-----------------------------------|
|            |      |                 |              |               |     |              |              | IN     | OUT | IN       | OUT |                                   |
| Nov. 30    | W-7  | R. megalotus    | 0330         | 9.0           | ♂   | m            | TND          | X      |     | X        |     | Caught in<br>same trap<br>w/ 0440 |
|            | W-4  | Picrotus        | 0420         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-4  | P. moniculator  | 0320         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
|            | W-3  | Perognathus     | 0220         | <del>28</del> | ♂   | m            | TND          |        | X   |          | X   |                                   |
|            | W-1  | Perognathus     | 0440         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
| Dec 1      | E-1  | P. boylii       | 0110         | 17            | ♂   | imm          | TND          |        | X   |          | X   |                                   |
|            | W-5  | R. megalotus    | 0440         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-4  | Picrotus        | 0420         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-4  | P. moniculator  | 0320         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
|            | W-1  | Perognathus     | 0440         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-1  | Perognathus     | 0240         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
| Dec 1 (pm) | W-3  | Perognathus     | 0440         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
|            | W-3  | Perognathus     | 0220         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
| Dec 2      | W-11 | P. boylii       | 04210        | 39.0          | f   | m            | perf         |        | X   | X        |     |                                   |
|            | W-9  | P. californicus | 1983         | 33            | ♂   | late<br>seed | TND          | X      |     | X        |     |                                   |
|            | W-7  | R. megalotus    | 0430         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-7  | R. megalotus    | 0230         |               | ♂   | RECAPT       |              | X      |     | X        |     |                                   |
|            | W-7  | R. megalotus    | New<br>01000 | 4.5           | ♀   | imm          |              | X      |     | X        |     |                                   |
|            | W-4  | P. moniculator  | 0320         | RECAPT        |     |              |              | X      |     | X        |     |                                   |
|            | W-3  | Perognathus     | 0220         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-1  | Perognathus     | 0440         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
| Dec 3      | E-7  | Picrotus        | 0100         | 47.0          | f   | m            | perf<br>foot |        | X   |          | X   | enough hole<br>untreated<br>fence |
|            | E-9  | Perognathus     | 0230         | RECAPT        |     |              |              |        | X   |          | X   |                                   |
|            | W-11 | R. megalotus    | 0330         |               | f   | m            | RECAPT       |        | X   |          | X   |                                   |
|            | W-9  | Picrotus        | 0130         | 63.0          | ♂   |              |              |        | X   |          | X   | removed<br>to Big Creek           |





RIBBLE, D.O.  
1987

JOURNAL - ~~GRID~~ DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE: GRID RC

|                                                 | St.  | SPP            | No            | Wt.                   | Sex   | Age        | Beds           | CAUGHT<br>IN   OUT | RELEASE<br>IN   OUT |                                 |
|-------------------------------------------------|------|----------------|---------------|-----------------------|-------|------------|----------------|--------------------|---------------------|---------------------------------|
| Dec 3 (cont)                                    | W-4  | Sorex          | Cat No<br>809 | 6.2                   | ♂     | m          | breeding       |                    | X                   |                                 |
|                                                 | W-3  | Perognathus    | 0220          | RECAPT                |       |            |                |                    | X                   | X                               |
|                                                 | W-1  | Perognathus    | 0440          | RECAPT                |       |            |                |                    | X                   | X                               |
| Dec 4                                           | W-1  | Perognathus    | 0440          | RECAPT                |       |            |                | X                  |                     | X                               |
| 11-0130                                         | W-1  | Perognathus    | 0240          | RECAPT                |       |            |                |                    | X                   | X                               |
| 11-0440                                         | W-3  | Perognathus    | 0220          | RECAPT                |       |            |                | X                  |                     | X                               |
| 11-0110                                         | W-4  | P. maniculatus | 0320          | RECAPT                |       |            |                | X                  |                     | X                               |
| 11-0540                                         | W-4  | Sorex          | Cat No<br>810 | 6.0                   | ♂     | m          | breeding       | X                  |                     | <del>trap on</del><br>mortality |
| 11-01010                                        | W-7  | R. megalotis   | 0330          | RECAPT                |       |            |                | X                  |                     | X                               |
|                                                 | W-11 | R. megalotis   | 0230          | RECAPT                |       |            |                | X                  |                     | X                               |
| 11-040                                          | W-11 | R. megalotis   | 01000         | RECAPT                |       |            |                | X                  |                     | X                               |
| ~ Traps closed and left blocking passageways. ~ |      |                |               |                       |       |            |                |                    |                     |                                 |
| Dec 8                                           | E-9  | P. boylii      | 04230         | <sup>278</sup><br>278 | ♀     | early<br>M | early<br>pregn |                    | X                   | X                               |
|                                                 | W-11 | " "            | 0420          | 33                    | ♀     | M          | lactating      | X                  |                     | X                               |
|                                                 | W-9  | R. megalotis   | 0330          | 9                     | ♂     | m          | TND            | X                  |                     | X                               |
|                                                 | W-7  | " "            | 0230          | 12                    | ♂     | M          | scrotal        | X                  |                     | X                               |
|                                                 | W-4  | Microtus       | 0420          | 32                    | ♂     | M          | TND            |                    | X                   | X                               |
|                                                 | W-3  | R. megalotis   | 0410          | 12                    | ♂     | M          | scrotal        | X                  |                     | X                               |
|                                                 | W-3  | Perognathus    | 0440          | 25                    | ♀     | M          | imp,<br>pregn  |                    | X                   | X                               |
|                                                 | W-1  | Perognathus    | 0220          | 28                    | ♂     | M          | TND            | X                  |                     | X                               |
| Dec 9                                           | W-11 | P. boylii      | 0420          | RECAP                 | RECAP |            | lactatn        | X                  |                     | X                               |
|                                                 | W-9  | S. latimanus   | Cat No<br>811 | 7.4                   | ♂     | M          | breeding       |                    | X                   | kept & killed.                  |
|                                                 | W-7  | R. megalotis   | 0330          | RECAP                 |       |            |                | X                  |                     | X<br>getting thorough           |
|                                                 | W-4  | P. maniculatus | 0320          | 21                    | ♀     | M          | sup,<br>mullip | X                  |                     | X                               |
|                                                 | W-3  | Perognathus    | 0440          | RECAP                 |       |            |                | X                  |                     | X                               |
|                                                 | W-1  | Perognathus    | 0220          | "                     |       |            |                |                    | X                   | X                               |





RIBBLE, D.O.  
1987

# JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

## DRIFT FENCE GRID RC

|             | St.                                                | SPP.            | No            | WT    | Sex | Age          | Bdy                            | CAUGHT<br>IN OUT | RELEASE<br>IN OUT |   |                                       |
|-------------|----------------------------------------------------|-----------------|---------------|-------|-----|--------------|--------------------------------|------------------|-------------------|---|---------------------------------------|
| DEC. 10     | E-7                                                | Perognathus     | 0230          | 21    | ♀   | M            | imp<br>pinous                  | X                |                   | X |                                       |
|             | E-7                                                | Microtus        | 0100          | 51.5  | ♀   | M            | perf<br>pinous                 |                  | X                 | X |                                       |
|             | W-11                                               | P. boylii       | 04210         | RECAP |     |              | not<br>lactating               |                  | X                 | X |                                       |
|             | W-9                                                | P. californicus | New<br>1123   | 32.5  | ♀   | SAD          | imp<br>nipples                 |                  | X                 | X | Returned to lab<br>for tissues.       |
|             | W-7                                                | R. megalotis    | 0330          | RECAP |     |              |                                | X                |                   | X |                                       |
|             | W-5                                                | R. megalotis    | 0230          | RECAP |     |              |                                |                  | X                 | X |                                       |
|             | W-3                                                | Perognathus     | 0440          | RECAP |     |              |                                | X                |                   | X |                                       |
|             | W-1                                                | Perognathus     | 0240          |       |     |              |                                |                  | X                 | X | Released on<br>wrong side             |
| Dec 10 (PM) | W-1                                                | Perognathus     | 0220          |       |     |              |                                | X                |                   | X | [See Journal<br>DIED in<br>captivity] |
| Dec 11      | E-8                                                | Microtus        | New 0440 13.5 | ♂     | 10M | TWO          |                                |                  | X                 | X |                                       |
|             | E-5                                                | Perognathus     | 0230          | RECAP |     |              |                                |                  | X                 | X |                                       |
|             | W-11                                               | P. boylii       | 04210         | RECAP |     |              |                                |                  | X                 | X |                                       |
|             | W-7                                                | R. megalotis    | 0410          | 11    |     |              | scrotal                        | X                |                   | X |                                       |
|             | W-7                                                | Perognathus     | 0220          | 11    |     |              |                                |                  | X                 | X |                                       |
|             | W-3                                                | Perognathus     | 0440          | 11    |     |              |                                |                  | X                 | X |                                       |
| 01110       | Traps closed and passageways left closed (blocked) |                 |               |       |     |              |                                |                  |                   |   |                                       |
| Dec 17      | E-10                                               | Perognathus     | 0230          | 23    | ♀   | M            | imp<br>pinous                  | X                |                   | X |                                       |
| 01010       | W-11                                               | P. boylii       | New<br>0130   | 18.5  | ♂   | early<br>SAD | TWO                            |                  | X                 | X |                                       |
| 10          | W-9                                                | R. megalotis    | P+C<br>01000  | 8     | ♀   | M?           | imp                            | X                |                   | X |                                       |
|             | W-4                                                | R. megalotis    | 0410          | 12    |     |              | Escaped while<br>handling      |                  | X                 | X |                                       |
|             | W-1                                                | Perognathus     | 0-140         | 23    | ♂   | M            | TWO                            |                  | X                 | X |                                       |
| Dec 18      | W-11                                               | P. boylii       | 04210         | 33    | ♀   | M            | Pregnant,<br>mammary lactating | X                |                   | X |                                       |
|             | W-9                                                | P. boylii       | 0130          | RECAP |     |              |                                | X                |                   | X |                                       |
|             | W-7                                                | R. megalotis    | 01000         | RECAP |     |              |                                | X                |                   | X |                                       |
|             | W-4                                                | R. megalotis    | 0410          | 12    | ♂   | M            | scrotal                        |                  | X                 | X |                                       |
|             | W-3                                                | Perognathus     | 0440          | RECAP |     |              |                                | X                |                   | X |                                       |





RIBBLE, D.D.  
1987

# JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

## DRIFT FENCE GRID RC

|                               | ST   | Spp            | No.          | WT    | SEX | Age        | Budg                      | CAUGHT<br>IN | OUT | RELEASE<br>IN | OUT |                                            |
|-------------------------------|------|----------------|--------------|-------|-----|------------|---------------------------|--------------|-----|---------------|-----|--------------------------------------------|
| Dec 19                        | E-9  | Perognathus    | 0230         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-11 | R. megalotis   | 0340         | 10.5  | ♂   | M          | scrotal                   |              | X   |               | X   |                                            |
| <del>boylii - 0130</del> 0140 | W-11 | P. boylii      | 04210        | POCAP |     |            |                           | X            |     |               | X   |                                            |
| <del>chm - 0140</del>         | W-7  | R. megalotis   | 0230         | 11    | ♂   | M          | scrotal                   | X            |     | X             |     |                                            |
| <del>unsp. - 0110</del>       | W-4  | R. megalotis   | 0410         | RECAP |     |            |                           |              | X   |               | X   |                                            |
| <del>unsp. - 0140</del>       | W-3  | P. maniculatus | New<br>0340  | 15    | ♂   | SAD        | TND                       |              | X   |               | X   |                                            |
| <del>unsp. - 0140</del>       | W-3  | Perognathus    | 0230         | RECAP |     |            |                           | X            |     | X             |     |                                            |
|                               | W-1  | Perognathus    | 0440         |       |     |            |                           |              | X   |               | X   |                                            |
| Dec 20                        | W-11 | R. boylii      | 04210        | RECAP |     |            |                           | X            |     | X             |     | let through today                          |
|                               | W-9  | P. boylii      | New<br>0140  | 22    | ♀   | early<br>M | post-lact.<br>Parous, imp | X            |     | X             |     | wanted back's<br>got through<br>passageway |
|                               | W-7  | R. megalotis   | 0330         | 9     | ♂   | SAD        | TND                       | X            |     | X             |     |                                            |
|                               | W-7  | R. megalotis   | 0340         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-5  | R. megalotis   | pre<br>01000 | 7     | ♀   | SAD        | imp.<br>nipples           |              | X   |               | X   |                                            |
|                               | W-4  | R. megalotis   | 0410         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-4  | R. megalotis   | 0310         | 10    | ♂   | M          | scrotal                   | X            |     | X             |     | CAUGHT IN<br>SAME<br>TRAP!                 |
|                               | W-4  | P. maniculatus | 0340         | RECAP |     |            |                           | X            |     | X             |     |                                            |
|                               | W-3  | P. maniculatus | 0320         | 21.5  | ♀   | M          | parous<br>perforate       | X            |     | X             |     |                                            |
|                               | W-3  | Perognathus    | 0240         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-1  | Perognathus    | 0440         | RECAP |     |            |                           | X            |     | X             |     |                                            |
| Dec 21                        | W-1  | Perognathus    | 0440         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-3  | Perognathus    | 0240         | RECAP |     |            |                           | X            |     | X             |     |                                            |
|                               | W-4  | R. megalotis   | 0310         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-5  | R. megalotis   | 0340<br>0140 | 11    |     |            |                           | X            |     | X             |     |                                            |
|                               | W-5  | R. megalotis   | 0230         | RECAP |     |            |                           |              | X   |               | X   |                                            |
|                               | W-7  | R. megalotis   | 0410         | 11    |     |            |                           | X            |     | X             |     |                                            |
|                               | W-7  | R. megalotis   | 01000        | 11    |     |            |                           | X            |     | X             |     |                                            |





PIBBLE, D.O.  
1987

Journal - Drift Fence Data

Hastings Reservation, Monterey Co., Calif.

GRID DC Drift Fence: Mammals

|               | St.  | Spp.                 | No.       | Wt.   | Sex | Age | Body     | CAUGHT |     | RELEASE |     | mortality |
|---------------|------|----------------------|-----------|-------|-----|-----|----------|--------|-----|---------|-----|-----------|
|               |      |                      |           |       |     |     |          | IN     | OUT | IN      | OUT |           |
| Dec 21 (cont) | W-9  | <u>S. townsendii</u> | Cat # 815 | 5     | ♂   | IM  | breeding | X      |     |         |     |           |
|               | W-11 | <u>P. boylii</u>     | D4210     | RECAP |     |     |          | X      |     |         | X   |           |

~ Traps closed & passage ways left open ~~~~~





ZIBBLE, D.D.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Mendocino Co., Calif.

DRIFT FENCE DATA GRID PC-1: HERPS & MISC ONLY

|             | Station | Species               | No.    | Wt.   | Sex            | Age | Body              | CAUGHT |     | RELEASED |                    |
|-------------|---------|-----------------------|--------|-------|----------------|-----|-------------------|--------|-----|----------|--------------------|
|             |         |                       |        |       |                |     |                   | IN     | OUT | IN       | OUT                |
| Nov 5 (pm)  | E-2     | <i>Taricha torosa</i> | N 010  | 14    | ?              | M   | terrestrial stage | X      |     | X        |                    |
|             | E-7     | <i>Taricha</i>        | N 020  | 16    | ?              | "   | "                 | X      |     | X        | Caught in trap     |
| Nov 6 (am)  | E-2     | <i>Taricha</i>        | N 030  | 12.5  | "              | "   | "                 | X      |     | X        |                    |
|             | E-2     | <i>Taricha</i>        | N 040  | 14    | "              | "   | "                 |        | X   | X        |                    |
|             | E-7     | <i>Taricha</i>        | N 0100 | 13    | "              | "   | "                 |        | X   | X        |                    |
|             | E-7     | <i>Taricha</i>        | N 0110 |       | "              | "   | "                 |        | X   | X        |                    |
|             | W-8     | <i>Taricha</i>        | N 0120 |       |                |     |                   |        | X   | X        |                    |
|             | W-8     | <i>Taricha</i>        | N 0200 | 1.5g  |                | Imm | "                 | X      |     | X        |                    |
|             | W-6     | <i>Taricha</i>        | N 0130 |       | ♂-bulbous vent | M   | tail broadened    | X      |     | X        |                    |
|             | W-6     | <i>Taricha</i>        | N 0140 |       | ?              | "   | terrestrial       | X      |     | X        |                    |
|             | W-6     | <i>Ensatina</i>       | N 010  | 6g    | ?              | M   |                   | X      |     | X        | Red color          |
|             | W-4     | <i>Taricha</i>        | N 0200 |       | ?              | "   | terrestrial       | X      |     | X        |                    |
| Nov 7 (am)  | E-2     | <i>Taricha</i>        | N 0210 |       | "              | "   | "                 | X      |     | X        |                    |
|             | W-6     | "                     | N 0220 |       | "              | "   | "                 |        | X   | X        |                    |
|             | W-6     | "                     | N 0230 |       | "              | "   | "                 | X      |     | X        |                    |
|             | W-4     | "                     | N 0240 |       | "              | "   | "                 | X      |     | X        |                    |
| Nov 8 (am)  | W-8     | <i>Ensatina</i>       | N 0300 |       | "              | "   | "                 |        |     |          | trapped in Sherman |
|             | W-8     | <i>Ensatina</i>       | N 020  | 6g    | ?              | M   | no                | X      |     | X        |                    |
|             | W-8     | <i>Ensatina</i>       | N 030  | 6g    | "              | "   | "                 | X      |     | X        |                    |
| Nov 9 (am)  | W-6     | <i>Taricha</i>        | N 0310 |       | "              | "   | terrestrial       |        | X   | X        |                    |
|             | W-7     | "                     | N 0320 |       | "              | "   | "                 |        | X   | X        | Caught in trap.    |
|             | W-8     | <i>Ensatina</i>       | 030    | RECAP |                |     |                   |        | X   | X        |                    |
|             | W-10    | <i>Ensatina</i>       | N 040  |       | "              | "   | "                 |        | X   | X        |                    |
| Nov 10 (am) | W-8     | <i>Ensatina</i>       | 010    | RECAP | "              | "   | "                 |        | X   | X        |                    |
|             | W-8     | <i>Ensatina</i>       | 030    | RECAP |                |     |                   | X      |     | X        |                    |





ZIBBLE, D.O.  
1987

# JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID RC-1 Heaps only.

|             | St.  | Spp       | No          | Wt | Sex | Age   | Bdgs     | CAUGHT |     | RELEASED |       |
|-------------|------|-----------|-------------|----|-----|-------|----------|--------|-----|----------|-------|
|             |      |           |             |    |     |       |          | IN     | OUT | IN       | OUT   |
| Nov. 13     | W-6  | Tamias    | New<br>0330 |    | ?   | M     | Tenuisul |        | X   |          | X     |
|             | W-4  | Em. satua | New<br>0100 |    | ?   | Young |          | X      |     | X        |       |
| Nov 13 (pm) | W-8  | Tamias    | New<br>0340 |    | ?   | M     | Tenuis   |        | X   |          | X     |
| Nov 14 (am) | W-2  | Tamias    | New<br>0400 |    |     | m     | Terr     | X      |     | X        |       |
|             | W-2  | Tamias    | New<br>0410 |    |     | m     | Terr     |        | X   |          | X     |
|             | W-2  | Tamias    | N<br>0420   |    |     | m     | Terr     |        | X   |          | X     |
|             | W-4  | "         | N<br>0430   |    |     | M     | "        | X      |     | X        |       |
|             | W-4  | "         | N<br>0440   |    |     | m     | "        | X      |     | X        |       |
|             | W-6  | "         | N<br>1000   |    |     | m     | "        |        | X   |          | X     |
|             | W-8  | "         | N<br>1010   |    |     | m     | "        |        | X   |          | X     |
|             | W-10 | Tamias    | N<br>1020   |    |     | "     | Ten      |        | X   |          | X     |
|             | E-2  | Em. satua | N<br>0110   |    |     |       |          | X      |     | X        |       |
|             | E-2  | Em. satua | N<br>0420   |    |     | "     | "        | X      |     | X        |       |
|             | E-2  | Em. satua | N<br>0200   |    |     | juv   | "        |        | X   |          | X     |
|             | E-4  | Em. satua | N<br>0230   |    |     | m     | "        |        | X   |          | X     |
|             | E-4  | Tamias    | N<br>1030   |    |     | m     | "        | X      |     | X        |       |
|             | E-7  | Tamias    | N<br>1040   |    |     | m     | "        |        | X   |          | X     |
|             | E-7  | Tamias    | N<br>1100   |    |     | m     | "        |        | X   |          | X     |
|             | E-8  | "         | N<br>1110   |    |     | m     | terr     |        | X   |          | X     |
|             | E-8  | "         | N<br>1120   |    |     | m     | terr     |        | X   |          | X     |
|             | E-8  | "         | N<br>1130   |    |     | m     | "        | X      |     | X        |       |
|             | E-8  | "         | N<br>1140   |    |     | m     | "        | X      |     | X        |       |
| Nov 15 (am) | E-1  | "         | N<br>1100   |    |     | m     | terr     | X      |     | X        |       |
|             | E-5  | "         | N<br>1100   |    |     | m     | terr     | X      |     | X        | Recap |
| Nov 16      | E-8  | "         | 01200       |    |     | "     | "        |        | X   |          | X     |





RUBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE DATA: GRID DC-1 HERPS ONLY

|         | St. | SPP      | No              | Wt. | Sex | Age                   | Bdgs    | CAUGHT |     | RELEASED |                             |
|---------|-----|----------|-----------------|-----|-----|-----------------------|---------|--------|-----|----------|-----------------------------|
|         |     |          |                 |     |     |                       |         | IN     | OUT | IN       | OUT                         |
| Nov. 17 | W-7 | Tamucha  | New<br>01210    |     | ?   | <del>SAO</del><br>SAO | Terrest |        | X   |          | X                           |
|         | W-4 | Tamucha  | N<br>01220      |     | "   | M                     | "       | X      |     | X        |                             |
| Nov 18  | E-2 | Tamucha  | N<br>01230      |     |     | Imm                   | "       |        | X   |          | X                           |
|         | E-4 | "        | N<br>01240      |     | 11  | M                     | "       |        | X   |          | X                           |
|         | E-4 | "        | N<br>01300      |     | "   | "                     | "       | X      |     | X        |                             |
|         | E-7 | "        | N<br>01310      |     | 11  | "                     | "       |        | X   |          | X                           |
|         | E-7 | "        | N<br>01320      |     | "   | "                     | "       |        | X   |          | X                           |
|         | E-8 | "        | N<br>01330      |     | "   | Imm                   | "       |        | X   |          | X                           |
| #       | W-8 | Eusatria | N<br>0140       |     | "   | M                     |         | X      |     | X        |                             |
|         | W-6 | "        | N<br>0200       |     | "   | Imm                   |         | X      |     | X        | temp<br>5-V $\approx$ 30 mm |
|         | W-6 | Tamucha  | N<br>01340      |     | "   | M                     | terrest | X      |     | X        |                             |
|         | W-4 | Eusatria | N<br>0210       |     | "   | M                     |         | X      |     | X        |                             |
|         | W-4 | Tamucha  | N<br>01400      |     | "   | "                     | terrest |        | X   |          | X                           |
| Nov 19  | E-6 | Tamucha  | N<br>01410      |     | "   | "                     | "       |        | X   |          | X                           |
|         | E-7 | "        | N<br>01420      |     | "   | "                     | "       |        | X   |          | X                           |
|         | E-4 | "        | N<br>01430      |     | "   | "                     | "       |        | X   |          | X                           |
|         | W-2 | "        | N<br>01440      |     | "   | "                     | "       | X      |     | X        |                             |
|         |     |          | <del>0214</del> |     |     |                       |         |        |     |          |                             |





RIBBLE, D.O.  
1987

JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

DRIFT FENCE RC-1: HERPS ONLY

|             | St.            | Spp.    | No.<br><del>Tag</del> | Wt.<br><del>g</del> | Sex<br><del>Tag</del> | Age | Body        | CAUGHT<br>IN OUT | RELEASE<br>IN OUT |   |
|-------------|----------------|---------|-----------------------|---------------------|-----------------------|-----|-------------|------------------|-------------------|---|
| Nov. 24     | ~              | Nothing | —                     |                     |                       |     |             |                  |                   |   |
| Nov 30 (pm) | W-8            | Taricha | New<br>02000          |                     | ?                     | M   | terrestrial | X                |                   | X |
| Dec 1       | W-6            | Taricha | N<br>02010            |                     |                       |     |             | X                |                   | X |
|             | W-6            | Taricha | N<br>02020            |                     |                       |     |             | X                |                   | X |
|             | W-6            | Taricha | N<br>02030            |                     |                       |     |             | X                |                   | X |
|             | W-6            | Eurycea |                       |                     |                       |     |             | X                |                   | X |
|             | W-2            | Taricha | N<br>02040            |                     |                       |     |             | X                |                   | X |
| Dec 1 (pm)  | W-8            | Taricha | N<br>02100            |                     | ?                     | M   | ter.        | X                |                   | X |
| Dec 1 (pm)  | W-7            | Taricha | N<br>02110            |                     |                       |     |             | X                |                   | X |
| Dec 2 (am)  | E-2            | Taricha | N<br>02120            |                     |                       |     |             | X                |                   | X |
|             | E-6            | Taricha | N<br>02130            |                     |                       |     |             | X                |                   | X |
|             | W-10           | Taricha | N<br>02140            |                     |                       |     |             |                  | X                 | X |
|             | <del>W-4</del> | Taricha | 02010                 |                     |                       |     | NO CAPT     | X                |                   | X |
|             | W-4            | Taricha | New<br>02200          |                     |                       |     |             | X                |                   | X |
|             | W-3            | Taricha | New<br>02210          |                     |                       |     |             |                  | X                 | X |
| Dec 3 (am)  | E-2            | Taricha | New<br>02220          |                     |                       |     |             | X                |                   | X |
| Dec 4 (am)  | W-4            | Taricha | New<br>02230          |                     |                       |     |             |                  | X                 | X |
|             | W-10           | Taricha | New<br>02240          |                     |                       |     |             |                  | X                 | X |
| Dec 9       | W-10           | Taricha | New<br>02300          |                     | ?                     | M   | terrestrial | X                |                   | X |
|             | W-8            | Taricha | "<br>02310            |                     | "                     | "   | "           | X                |                   | X |
| Dec 10      | E-8            | Taricha | "<br>02320            |                     | "                     | "   | "           | X                |                   | X |
|             | W-10           | Taricha | "<br>02330            |                     | "                     | "   | "           | X                |                   | X |
|             | W-6            | Taricha | "<br>02340            |                     | "                     | "   | "           | X                |                   | X |
|             | W-4            | "       | "<br>02400            |                     | "                     | "   | "           | X                |                   | X |
|             | W-4            | "       | "<br>02410            |                     | "                     | "   | "           | X                |                   | X |

too small  
to mark





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JOURNAL - DRIFT FENCE DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: Herps only

|         | St. | SPP.    | No.          | WT  | Sex | Age   | Body     | CAUGHT |     | RELEASE |     |                     |
|---------|-----|---------|--------------|-----|-----|-------|----------|--------|-----|---------|-----|---------------------|
|         |     |         |              | gms |     |       |          | IN     | OUT | IN      | OUT |                     |
| Dec 11. | E-6 | Tamias  | New<br>02420 |     | ?   | M     | benasted | X      |     | X       |     |                     |
| Dec 16  | E-5 | Tamias  | New<br>02420 |     | ?   | "     | "        |        | X   |         | X   | clipped<br>wrong    |
|         | E-5 | Ensatus | New<br>0220  |     | ?   | "     |          | X      |     | X       |     |                     |
|         | W-4 | Ensatus | New<br>0230  |     |     | Young |          | X      |     | X       |     |                     |
| Dec 20  | E-1 | Tamias  | New<br>02430 |     | ?   | M     | terras   | X      |     | X       |     | caught in<br>shenan |

Transcribed  
to manual sheet

GRID RC: Mammals

|               |      |                   |              |       |    |   |          |   |  |   |  |           |
|---------------|------|-------------------|--------------|-------|----|---|----------|---|--|---|--|-----------|
| Dec 21 (cont) | W-4  | S. trachydactylus | Cat #<br>865 | 5     | 30 | M | breeding | X |  |   |  | Mortality |
|               | W-11 | P. boylii         | 04210        | RELAP |    |   |          | X |  | X |  |           |

Traps closed; passageways left open











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Peromyscus boylii (L)

Hastings Natural History Reservation, Monterey Co., Calif.

|          |                                        |                                    |              |                          |                                    |
|----------|----------------------------------------|------------------------------------|--------------|--------------------------|------------------------------------|
| Feb. 2   | 01440                                  | ♀, mature, imp., parous, 24g.      | Toe-clipped. | Grid <del>MC</del> MC-1, | Station 7, 14                      |
|          | 02000                                  | ♂, mature, TND, 20g                | " "          | " "                      | 10, 14                             |
|          | 02100                                  | ♀, mature, imp., nulliparous, 20g  | " "          | " "                      | 10, 14                             |
|          | 02100                                  | ♀, mature, pregnant (L?), 22g      | " "          | Grid RC-1,               | " 5, 11                            |
| March 27 | 02110                                  | ♀, mature, imp, parous, 18g        | " "          | Grid MC-1                | St. 5, 8                           |
| March 28 | 02210                                  | ♀, mature, imp, nullip, 23g        | " "          | "                        | 7, 8                               |
|          | 02200                                  | ♂, mature, TND (close), 20g        | " "          | Trapline B<br>on RC-1    | St. 8                              |
|          | 02310                                  | ♀, mature, imp, parous, 23g        | " "          | Trapline A<br>on RC-1    | St. 6                              |
|          | 02320                                  | ♀, " " " 23g                       | " "          | " "                      | " 9                                |
|          | 0 $\frac{1}{3}$ 0 <sup>(natural)</sup> | ♂, mature, TND, 23g                | " "          | Trapline B<br>on MC-1    | " 10                               |
|          | 02120                                  | ♀, mature, imp, parous, 24g        | " "          | " "                      | " 10                               |
|          | 02130                                  | ♂, mature, TND, 22g                | " "          | " "                      | " 8                                |
|          | 02140                                  | ♀, mature, imp, nullip, 20g        | " "          | " "                      | " 8                                |
|          | 02300                                  | ♂, mature, TND, 23g                | " "          | " "                      | " 7                                |
|          | 02220                                  | ♂ " " 24g                          | " "          | Trapline A<br>on MC-1    | " 1                                |
|          | 02230                                  | ♂ " " 24g                          | " "          | " "                      | " 6                                |
|          | 02240                                  | ♂ " " 20g                          | " "          | " "                      | 10                                 |
|          | 02310                                  | ♂ " " 21g                          | " "          | " "                      | 10                                 |
| March 29 | 02210                                  | ♂ mature, TND (close) 23g          | " "          | Grid RC-1                | st. 8, 12                          |
|          | 03200                                  | ♀, mature, imp, nullip., 22g       | " "          | Trapline A<br>on RC-1    | St. 3                              |
| June 2   | 02220                                  | ♀, mature, perf., parous, 21g      | Toe-clipped. | Grid RC-1.               | St 8, 10                           |
| June 3   | 02230                                  | ♀ Mature, imp, nullip. 21g         | " "          | " "                      | 5, 14                              |
|          | 02220                                  | ♀ " " " 24g                        | " "          | Grid MC-1, St. 6, 13.    | Previously<br>ear-tagged<br>(lost) |
|          | 02230                                  | ♂ Mature, scrotal. 21g             | " "          | " "                      | 6, 14                              |
| June 4   | 02240                                  | ♀ Mature, perforate, parous. 21g   | " "          | Grid RC-1, St. 8, 10     |                                    |
|          | 02240                                  | ♀ Mature, imperforate, parous, 25g | " "          | Grid MC-1, St. 7, 5      |                                    |





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PEROMYSCUS BOYLEI (2)

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|         |                                                                                                                               |  |
|---------|-------------------------------------------------------------------------------------------------------------------------------|--|
| June 5  | # 02300 ♂ Mature, scrotal, 25g. Toe-clipped. Grid RC-1, station, 8, 14.                                                       |  |
|         | 02310 ♀ Mature, parous, perforate, 24g. " " 5, 17                                                                             |  |
| June 6  | 02320 ♀ Mature, <sup>Post-lactating</sup> imperforate, parous, 25g " Grid RC-1, St. 8, 12                                     |  |
|         | 02330 ♀ Mature, imperforate, parous, 24.5g " " 5, 17                                                                          |  |
| July 12 | 02300 ♂, mature, scrotal, 24g. " Grid MC-1, St. 8, 13                                                                         |  |
| July 13 | 02310 ♀, mature, parous, imp. 23g. " <sup>Transect A-1, east of MC-1.</sup> St. 2                                             |  |
|         | 02320 ♂, mature, TND (close). 24g " " St. 10                                                                                  |  |
| July 14 | 02330 ♂, immature, TND. 12g " " St. 1                                                                                         |  |
|         | 02340 ♂, mature, scrotal. 24.5g. " " St. 6                                                                                    |  |
|         | 02400 " " TND. 23g " <sup>Transect A-2, east of MC-1.</sup> St. 4                                                             |  |
| July 15 | 02410 ♀, mature, imp, nullip(?) 20g " " " St. 2                                                                               |  |
|         | 02420 ♂, mature, scrotal, 20.5g " " " "                                                                                       |  |
| July 16 | 02430 ♀, mature, imp., parous. 20g " " " "                                                                                    |  |
| July 17 | (should have clipped 2440, dual #, see above)<br>02340 ♂, mature, scrotal. 24g " <sup>Transect A-1, east of MC-1.</sup> St. 8 |  |
|         | ( " " " " " " )<br>02400 ♀, " , perforate, parous. 23g. " <sup>Transect A-2, east of MC-1.</sup> St. 4                        |  |
| July 18 | (changed 22 July to distinguish from 02400 below)<br>02400 ♂, mature, TND. 20g. " Grid RC-1. St. 7, 11                        |  |
|         | 010 ♀, Mature, lactating. 22g. " Transect RC-1. St. 1                                                                         |  |
|         | 020 ♂, " , scrotal. 26g. " " St. 1                                                                                            |  |
|         | 030 ♂, " , " . 25g. " " " 12                                                                                                  |  |
|         | 040 " " # TND. 18g " " " 15                                                                                                   |  |
| July 19 | 0100 ♀, mature, imp., parous. 21g " " " 1                                                                                     |  |
|         | 0110 ♀, subadult, imp, nulliparous. 19g. " " " 14                                                                             |  |
|         | 0120 ♀, mature, imp., parous 24g. " " " 14                                                                                    |  |
| July 20 | (wrong #, should have been 02410)<br>02400 ♂, mature, TND. 25g. " Grid RC-1. St. 5, 17                                        |  |
|         | 02410 ♀, " , imp., parous 24g " " " 7, 9                                                                                      |  |
|         | 02420 ♂, " , scrotal. 27g. " " " 3, 11                                                                                        |  |
|         | 0130 ♂, " , TND. 26g. " Transect RC-2. St. 1                                                                                  |  |





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Peromyscus boylii (3)

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|                |        |                                          |                    |              |                                        |           |
|----------------|--------|------------------------------------------|--------------------|--------------|----------------------------------------|-----------|
| July 20 (cont) | # 0140 | ♂, mature, TND.                          | 25g.               | Toe-clipped. | Transect RC-2.                         | St. 6     |
|                | 0200   | " , " , "                                | 18g.               | " "          | " "                                    | " 13      |
|                | 02430  | ♀, subadult, imp., nullip.               | 17g.               | " "          | GRID RC-1.                             | St. 3, 8  |
| July 21        | 010    | ♀, lactating, perforate.                 | 26g                | " "          | Transect VIII,<br>Robertson Creek,     | " 8       |
|                | 020    | ♂, mature, scrotal.                      | 25g                | " "          | " "                                    | " 10      |
|                | 030    | ♀, " , imp., parous.                     | 24g.               | " "          | " "                                    | " "       |
| July 22        | 040    | ♂, " , scrotal.                          | 26g                | " "          | " "                                    | " 9       |
|                | 02440  | ♀, " , perforate, parous.                | 26g                | " "          | GRID RC-1.                             | St. 7, 10 |
| July 23        | 03010  | ♀, " , imperforate, "                    | 21g                | " "          | " "                                    | " 6, 16   |
|                | 03020  | ♀, " , " , nulliparous.                  | 20g                | " "          | " "                                    | " 5, 16   |
| Aug 5          | 03030  | ♂, subadult, TND but close.              | 19.5g              | " "          | " "                                    | " 3, 11   |
| Aug 6          | 03040  | ♀, mature, imperforate, parous.          | 24.5g              | " "          | " "                                    | " 4, 18   |
| Aug 7          | 03100  | ♂, mature, scrotal,                      | 27g                | " "          | " "                                    | " 4, 18   |
| Aug 13         | 02446  | ♀, " , imp., parous.                     | 23.5g              | " "          | GRID MC-1,                             | 7, 18     |
|                | 03006  | ♀, " , <sup>Parous</sup> pregnant, perf. | 25g                | " "          | " "                                    | 7, 15     |
| Aug 15         | 03010  | ♂, <sup>subadult</sup> pelage, scrotal.  | 20g                | " "          | " "                                    | 8, 5      |
| Oct. 2         | 03020  | ♀. Mature, early pregnant, perforate.    | 30.5g              | " "          | Drift fence on<br>MC-1. St. W-11 (in)  |           |
|                | 03030  | ♀. Immature, nulliparous.                | 10g.               | " "          | GRID MC-1.                             | 8, 16     |
| Oct. 3         | 03040  | ♂. Immature, TND.                        | 16g.               | " "          | " "                                    | 5, 10     |
|                | 03110  | ♂. " "                                   | 12g.               | " "          | RC-1 drift fence,<br>St. W-4 (in)      |           |
|                | 03120  | ♀. " , Nulliparous                       | 12g.               | " "          | RC-1 drift fence,<br>St. W-1. (in)     |           |
| Oct 4          | 03100  | ♀. " , nulliparous.                      | "                  | " "          | MC-1 drift fence,<br>St. W-5 (in)      |           |
|                | 03110  | ♀. " "                                   | 11g.               | " "          | Grid MC-1.<br>St. 8, 16                |           |
|                | 03130  | ♂ Mature, scrotal.                       | 27 <del>13</del> g | " "          | Grid RC-1 drift<br>fence, St. W-9 (in) |           |
| Oct 5          | 03140  | ♀ Immature, nulliparous.                 | 13.5g              | " "          | Grid RC-1 drift<br>fence, St. W-4 (in) |           |
|                | 3200   | ♀ " "                                    | 13g.               | " "          | GRID RC-1. St. 6, 11                   |           |





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PEROMYSCUS BOYLEI (4)

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|        |                        |   |                                                                     |        |              |                                           |               |
|--------|------------------------|---|---------------------------------------------------------------------|--------|--------------|-------------------------------------------|---------------|
| Oct. 6 | #03210                 | ♂ | Immature, TND.                                                      | 13g.   | Toe-clipped. | GRID RC-1.                                | St. 6, 11     |
|        | 03220                  | ♀ | Mature, lactating.                                                  | 27.5g. | " - "        | "                                         | St. 3, 8      |
| Oct. 9 | 03230                  | ♂ | Immature, TND.                                                      | 12g.   | " - "        | "                                         | St. 6, 17     |
|        | 03240                  | ♂ | Mature, scrotal.                                                    | 24.5   | " - "        | "                                         | 4, 18         |
| Oct 12 | 03300                  | ♂ | Immature, TND.                                                      | 14.5g  | " - "        | "                                         | 8, 14         |
| Oct 16 | 03310                  | ♀ | Mature, Pregnant                                                    | 35g    | " - "        | Drift Fence cast of <del>RC-1</del> RC-1. | St. E-1       |
| Oct 17 | <del>03320</del> 03120 | ♂ | Early SAD, TND.                                                     | 17g    | " - "        | "                                         | MC-1. St E-5. |
| Oct 19 | 03320                  | ♀ | Immature, nullip.                                                   | 16g    | " - "        | Drift Fence on RC-1.                      | St. W-7 (out) |
|        | 03330                  | ♂ | Immature, TND.                                                      | 17g    | " - "        | "                                         | " W-4 (out)   |
|        | 03130                  | ♀ | " , nullip.                                                         | 15.5g  | " - "        | Drift Fence on MC-1.                      | St. W-7 (in)  |
| Oct 20 | 031200                 | ♂ | Early mature, scrotal.                                              | 22g    | " - "        | Drift Fence on MC-1.                      | St. W-11 (in) |
|        | 03340                  | ♀ | Mature, lactating.                                                  | 28g    | " - "        | Drift Fence on RC-1.                      | St. W-9 (in)  |
| Oct 21 | 03200                  | ♂ | Immature, TND                                                       | 16g    | " - "        | Drift Fence on MC-1.                      | St E-7 (out)  |
|        | 010                    | ♀ | Mature, <sup>Perforate.</sup> Test swollen, non-lactating           | " - "  | " - "        | Transect III in West Ravine.              | St # 8        |
| Nov. 3 | 03400                  | ♀ | Immature, nulliparous.                                              | 16g.   | " - "        | RC-1 drift fence # E-5                    | E-5 (out)     |
|        | 03410                  | ♂ | SUB, TND (close).                                                   | 20g    | " - "        | "                                         | E-7 (in)      |
|        | 03420                  | ♂ | Imm, TND.                                                           | 18g.   | " - "        | GRID RC-1.                                | St. 5, 17     |
|        | 03430                  | ♀ | Mature, Pregnant.                                                   | 33g    | " - "        | "                                         | 4, 15         |
|        | 03440                  | ♂ | SAD, scrotal.                                                       | 22g    | " - "        | "                                         | 7, 14         |
|        | 04000                  | ♂ | " , TND.                                                            | 20g    | " - "        | "                                         | 4, 8          |
|        | 04010                  | ♀ | Mature, Pregnant.                                                   | 34g.   | " - "        | "                                         | 3, 11         |
|        | 04020                  | ♂ | Imm, TND.                                                           | 18g    | " - "        | "                                         | 4, 12         |
|        | 04030                  | ♀ | " nulliparous.                                                      | 13g.   | " - "        | "                                         | 7, 11         |
| Nov. 4 | 04030                  | ♀ | Wrong # clipped (clipped 04030 on 5 Nov)<br>Early SAD, nulliparous. | 19.5g  | " - "        | Drift line RC-1.                          | St. E-3 (in)  |
|        | 04040                  | ♂ | SAD, TND.                                                           |        | " - "        | "                                         | E-3 (out)     |
|        | 03210                  | ♂ | Imm, TND.                                                           | 16g.   | " - "        | Drift line MC-1.                          | St. E-7 (in)  |
| Nov. 5 | 03220                  | ♀ | Early SUBADULT, nulliparous.                                        | 24g.   | " - "        | "                                         | St. W-9 (in)  |





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1987

PEROMYSCUS BOYLEI (5)

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|               |                    |   |                                                               |                     |            |                                                 |
|---------------|--------------------|---|---------------------------------------------------------------|---------------------|------------|-------------------------------------------------|
| Nov. 5 (cont) | # 04100            | ♀ | Imm, nulliparous.                                             | 1 leg. Toe-clipped. | Grid RC-1. | St. 4, 12                                       |
|               | 04110              | ♀ | "                                                             | "                   | 20g        | " - " " 4, 10                                   |
| Nov. 6        | 04120              | ♀ | "                                                             | "                   | 12g        | " - " " 8, 17                                   |
|               | 04130              | ♂ | <sup>lost tip of tail in trap door.</sup><br>SAD, TND (close) | 21g                 | " - "      | " 4, 18                                         |
| Nov 7         | 03230              | ♂ | SAD, TND.                                                     | 23.5g               | " - "      | Drift fence on MC-1,<br>St # W-5 (in)           |
| Nov 8         | 03240              | ♀ | Imm, nullip.                                                  | 17g                 | " - "      | " " " # E-3 (in)                                |
|               | 04140              | ♂ | " , TND.                                                      | 14g                 | " - "      | Grid RC-1, St. 9, 18                            |
| Nov. 9        | 03300              | ♂ | SAD, TND.                                                     | 19.5g               | " - "      | Grid MC-1, St. 8, 8                             |
| Nov 10        | 03310              | ♂ | " "                                                           | 18g                 | " - "      | Grid MC-1 drift fence.<br>St. W-13 (out)        |
|               | 03320              | ♀ | Imm, nulliparous                                              | 13.5g               | " - "      | Grid MC-1, St 8, 17                             |
|               | 03330              | ♀ | SAD, "                                                        | 24g                 | " - "      | " " " 6, 14                                     |
|               | 04200              | ♀ | Imm, "                                                        | 17g                 | " - "      | Grid RC-1 drift fence.<br>St. E-10 (out)        |
| Nov. 11       | 03340              | ♂ | SAD, TND.                                                     | 21g                 | " - "      | Grid MC-1. St. 8, 5                             |
|               | 0 <sup>3</sup> 400 | ♀ | Imm, nulliparous                                              | 17g                 | " - "      | " " " 6, 8                                      |
|               | 04210              | ♀ | Mature, lactating.                                            | 28g                 | " - "      | Grid RC-1 drift<br>fence. St. W-11              |
| Nov. 12       | 03410              | ♂ | Imm, TND.                                                     | 14g                 | " - "      | Grid MC-1. St. 8, 17                            |
|               | 03420              | ♂ | <sup>late</sup><br>Imm, TND.                                  | 17.5g               | " - "      | MC-1 drift fence St. E-3 (in)                   |
| Nov. 13       | 03430              | ♀ | Imm, nulliparous.                                             | 15g                 | " - "      | MC-1. St. 9, 17                                 |
|               | 034 <sup>4</sup> 0 | ♀ | Imm, nulliparous                                              | 18g.                | " - "      | MC-1 drift fence St. E-1 (in)                   |
|               | 04000              | ♂ | Imm, TND                                                      |                     | " - "      | " " " E-3 (in)                                  |
|               | 04010              | ♂ | SAD, TND.                                                     | 21g                 | " - "      | " " " W-1 (in)                                  |
| Nov 14        | 04020              | ♀ | Late Imm, nullip.                                             | 17g                 | " - "      | MC-1 drift fence W-5<br>(in)                    |
| Nov 15        | 04030              | ♀ | " , "                                                         | 20g                 | " - "      | " " " W-5<br>(in)                               |
|               | 04220              | ♀ | Imm, "                                                        | 18g                 | " - "      | Trapline <del>was</del> east<br>of Grid RC-1 #4 |
|               | 04230              | ♀ | " "                                                           | 15g                 | " - "      | " " "                                           |
| Nov 16        | 04240              | ♂ | Early Mature, scrotal                                         | 23g                 | " - "      | Trapline west<br>of RC-1 #2                     |
|               | 04300              | ♂ | SAD, TND.                                                     | 20g                 | " - "      | " " " (#2)                                      |
|               | 04310              | ♂ | SAD, scrotal.                                                 | 24g                 | " - "      | Trapline east of<br>RC-1.                       |





ZIBBLE, D.O.  
1987

Peromyscus Boylii (u)

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|               |       |   |                                                     |                                      |                                        |
|---------------|-------|---|-----------------------------------------------------|--------------------------------------|----------------------------------------|
| Nov 16 (cont) | 04320 | ♂ | Imm, TND, 18g.                                      | toe-clipped<br><del>ear-tagged</del> | GRID RC-1 drift fence<br>St. E-7 (out) |
| Nov. 17       | 04330 | ♀ | Mature, pregnant <sup>lactating(?)</sup> 34g        | " - "                                | Transect west of Grid<br>RC-1          |
|               | 04340 | ♀ | Imm, nullip. 19g                                    | " - "                                | Grid RC-1 drift fence<br>St. W-4 (in). |
| Nov. 18       | 04040 | ♀ | SAD, nullip. 18g                                    | " - "                                | MC-1 drift fence,<br>St. W-7 (out).    |
| Nov. 19       | 04400 | ♀ | Imm, nullip. 15g                                    | " - "                                | RC-1 drift fence<br>St. E-3 (out)      |
|               | 04410 | ♂ | SAD, TND. 18g                                       | " - "                                | GRID RC-1.<br>St. 6, 14                |
| Nov. 24       | 04430 | ♀ | early<br>SAD, nullip. 15g                           | " - "                                | East of grid RC-1,<br>transect         |
|               | 04420 | ♂ | Imm, TND. 16g                                       | " - "                                | GRID RC-1 drift fence<br>St. E-5 (in)  |
|               | 04440 | ♂ | " " 18g                                             | " - "                                | " " " "<br>W-11 (in)                   |
|               | 010   | ♂ | " " 15g                                             | " - "                                | " " " "<br>W-5 (in)                    |
|               | 020   | ♀ | " nullip. 14g                                       | " - "                                | " " " "<br>W-3 (out)                   |
|               | 030   | ♀ | Early<br>SAD. nullip. 21g                           | " - "                                | " " " "<br>W-1 (in)                    |
| Nov 28        | 040   | ♂ | Imm, TND 14g                                        | " - "                                | GRID RC. St. 5, 18                     |
| Nov 30        | 0100  | ♀ | Imm, imp, nullip. 13g                               | " - "                                | " " " " 7, 11                          |
| Dec 1         | 04100 | ♂ | Imm, TND. 19g.                                      | " - "                                | GRID MC drift fence,<br>St. E-5 (in).  |
| Dec 2         | 04110 | ♀ | SAD, nulliparous. 20g                               | " - "                                | " " " "<br>St. E-7 (out)               |
|               | 0110  | ♀ | Imm, nulliparous 14g                                | " - "                                | GRID RC, St. 4, 7                      |
| Dec. 3        | 0120  | ♀ | " " 12g                                             | " - "                                | " " St. 8, 10                          |
| Dec 9         | 020   | ♀ | Mature, lactating. 29g                              | " - "                                | GRID WR, St. 9, 40                     |
|               | 030   | ♀ | Imm, nulliparous. 19g                               | " - "                                | " " St. 6, 6                           |
|               | 0120  | ♂ | Mature, <sup>scrotal.</sup><br><del>TND</del> . 25g | " - "                                | " " St. 5, 5<br>13                     |

\* Note: This animal was previously toe-clipped # 020 which was a # never used in this area. The closest ♂ P. boylii designated this # was on 21 July on Transect III along Robertson Creek just above its confluence with Funch Creek. If this is the same animal, it represent a long movement. This animal was definitely toe-clipped # 020, and not due to a natural accident of some sort.

Dec 10

04120 ♂ SAD. TND. 21g. Toe-clipped. MC drift fence. St. E-7 (in)





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1987

PEROMYSCUS BOYLEI (F)

Henry Natural History Reservation, Monterey Co., Calif.

|        |        |                                                 |     |              |                                                               |
|--------|--------|-------------------------------------------------|-----|--------------|---------------------------------------------------------------|
| Dec 16 | #04130 | ♀ SAD, pregnant.                                | 28g | Toe-clipped. | GRID MC, St. 9,9                                              |
|        | 04140  | ♂ SAD, TWD.                                     | 22g | " - "        | " " " 6,12                                                    |
|        | 04200  | ♂ " , "                                         | 18g | " - "        | " " " 6,14                                                    |
| Dec 17 | 04210  | ♂ Imm, "                                        | 16g | " - "        | " " " 5,6                                                     |
| Dec 18 | 04220  | ♀ Late SAD, nullip.                             | 25g | " - "        | " " " 8,5                                                     |
| Dec 19 | 04230  | ♂ Imm, TWD.                                     | 12g | " - "        | MC drift fence, St. W-9 (in)                                  |
|        | 04240  | ♀ Imm, nullip.                                  | 19g | " - "        | GRID MC, St. 8,11                                             |
|        | 04300  | ♀ Early mature, nullip.                         | 24g | " - "        | " " St. 6,14                                                  |
|        | 0130   | ♂ Early SAD, TWD. <sup>(close)</sup>            | 19g | " - "        | Transsect east of Grid RC.                                    |
| Dec 20 | 04310  | ♀ Imm, nullip.                                  | 10g | " - "        | MC drift fence. St. W-5 <sup>out</sup> , but released back in |
|        | 04320  | ♀ Imm, nullip.                                  | 14g | " - "        | GRID MC, St. 8,16                                             |
|        | 0140   | ♀ Early Mat, <sup>parous,</sup> Post-lactating. | 22g | " - "        | RC drift line, St. W-9 (in)                                   |
| Dec 21 | 04340  | ♂ Imm, TWD.                                     | 17g | " - "        | GRID MC drift line, St. E-3 (in)                              |





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1987

Peromyscus californicus (1)

Hastings Natural History Reservation, Monterey Co., Calif.

|                      |       |                                                                         |                              |
|----------------------|-------|-------------------------------------------------------------------------|------------------------------|
| Feb. 1               | #1022 | ♂, Mature, TND, 36g. White tail tip. Ear-tagged. Grid MC-1. Station 9,5 |                              |
|                      | 1023  | ♂, Mature, TND, 39g.                                                    | " " " " " 9,5                |
|                      | 1024  | ♂, Immature, 22g.                                                       | " " " " " 10,10              |
|                      | 1025  | ♂, Mature, TND, 36g                                                     | " " " " " 8,8                |
|                      | 1026  | ♂, Mature, TND, 40g                                                     | " " " " " 7,10               |
|                      | 1034  | ♀, Immature, Nullip., 28g. White tail tip.                              | " " " " " 7,5                |
|                      | 1035  | ♂, Subadult, TND, 30g.                                                  | " " " " " 9,7                |
| March 26             | 1038  | ♀, mature, lactating, 50g                                               | " " " " " 9,5                |
|                      | 1039  | ♀, immature, nullip, 22g                                                | " " " " 9,13                 |
|                      | 1041  | ♀, immature, nullip, 19g                                                | " " " " 7,10                 |
| See Spp Acct 14 Nov. | 1042  | ♂, subadult, TND, 25g                                                   | " " " " 8,11                 |
|                      | 1043  | ♂, immature, TND, 23g                                                   | " " " " 8,13                 |
| March 27             | 1046  | ♂, early subadult, TND, 25g                                             | " " " " 8,5                  |
| March 28             | 1051  | ♀, mature, lactating, 45g.                                              | " Trapline B from MC-1 St. 8 |
|                      | 1052  | ♂, mature, scrotal, 38.5g                                               | " " " " 10                   |
|                      | 1057  | ♀, mature, imp., parous, 39g                                            | " Trapline A, per St. 8      |
|                      | 1058  | ♂, mature, TND, 42g                                                     | " " " " 10                   |
|                      | 1059  | ♂, mature, scrotal, 40g                                                 | " Trapline B on MC-1 St. 9   |
|                      | 1061  | ♂, mature, TND(close), 38g                                              | " " " " 6                    |
|                      | 1062  | ♀, mature, perf, nullip(?), 43                                          | " " " " 6                    |
|                      | 1063  | ♀, subadult, nullip, 38g                                                | " " " " 5                    |
|                      | 1067  | ♀, <sup>early</sup> mature, imp, nullip, 37g                            | " Trapline A on MC-1 " 3     |
|                      | 1068  | ♂, <sup>early</sup> subadult, TND, 25g                                  | " " " " 5                    |
| March 29             | 1074  | ♀, immature, nullip., 11g                                               | " Grid MC-1, St. 10,6        |
|                      | 1070  | ♂, mature, TND(close), 36g                                              | " Trapline B on MC-1 St. 5   |
|                      | 1071  | ♂, mature, scrotal, 37g                                                 | " Trapline A on MC-1 St. 5   |
|                      | 1072  | ♀, mature, pregnant (palpable), 51g<br>white tail tip.                  | " " " " 6                    |





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (2)

Hastings Natural History Reservation, Monterey Co., Calif.

|         |       |   |                                        |             |                                                                          |               |                              |
|---------|-------|---|----------------------------------------|-------------|--------------------------------------------------------------------------|---------------|------------------------------|
| June 2  | #1073 | ♂ | Subadult, TND, 34.5g.                  | Ear-tagged. | Grid MC-1.                                                               | Station 9, 13 |                              |
|         | 1076  | ♀ | Subadult, nullip., 34g                 | " "         | Grid RC-1.                                                               | Station 8, 16 |                              |
|         | 1078  | ♀ | Mature, nullip., 35g.                  | " "         | " "                                                                      | 6, 17.        | Died in trap in PM. Cat #764 |
|         | 1079  | ♀ | Subadult, nullip., 30.5g               | "           | "                                                                        | 5, 12         |                              |
| June 3  | 1086  | ♂ | Mature, TND(close), 37                 | "           | "                                                                        | 5, 13.        |                              |
| June 4  | 1089  | ♀ | Subadult, nullip., 28.5g               | "           | "                                                                        | 4, 9.         |                              |
|         | 1090  | ♂ | Subadult, TND, 31.5g                   | "           | Grid MC-1, st. 9, 14.                                                    |               |                              |
| June 6  | 1093  | ♂ | Subadult, TND, 29g                     | "           | 25m east of Grid MC-1, 5m S. of stream bed. Trap transect.               |               |                              |
| July 13 | 1096  | ♂ | Mature, TND, 39g                       | "           | Tissues collected 10 Oct 1987. Transect A-1, east of MC-1.               |               |                              |
|         | 1097  | ♂ | " " " 40g.                             | "           | White tail tip. Tissues collected 25 May 88. St. 10, ≈ 120 east of grid. |               |                              |
|         | 1098  | " | " " " 40g.                             | "           | White tail tip. Transect A-2, east of MC-1.                              |               |                              |
| July 14 | 1100  | " | " " " 41g.                             | "           | St. 6. (≈ 60m west of boundary)                                          |               |                              |
|         | 1901  | ♀ | " " " 40g                              | "           | St. 7 (≈ 40m west of boundary)                                           |               |                              |
|         | 1902  | ♂ | " " " 43g                              | "           | Transect A-3, east of MC-1.                                              |               |                              |
| July 15 | 1903  | ♀ | Mature, imp., nullip. - 39.5g          | "           | St. 9                                                                    |               |                              |
|         | 1904  | ♂ | " " " 37g                              | "           | Caught at 1st crossing, kept alive for behavioral observations           |               |                              |
|         | 1905  | ♂ | " " " 39g                              | "           | Transsect 3 embryos, 1 left. 56.5g                                       |               |                              |
| July 16 | 1906  | ♀ | Early Subadult, imp., nulliparous. 23g | "           | Transect A-3, east of MC-1. St. 2 - 241-140-25                           |               |                              |
|         | 1908  | ♂ | Mature, TND. 39g.                      | "           | " " - 20 = 56.5g                                                         |               |                              |

Behavioral (Fluorescent Trials): See Journal on 14 & 15 July for description of arena. Tonight we arrived at 2030 hrs. to begin work. #1902♂ was dusted with orange & blown on to remove excess powder. All boxes were removed from the enclosure, the partition was lifted, and 1902 was placed back in the enclosure. After 5min of ~~standing~~ sitting still with infrequent grooming, he began to explore around the enclosure. He approached 1903(♀), initiated an anal sniff, and walked over her and away to explore the





RIBBLE, D.D.  
1987

Peromyscus californicus (3)

Hastings Natural History Reservation, Monterey Co., Calif.

July 16 (cont.) arena. 1903 stayed huddled with no noticeable reaction.

This sequence of events occurred several more times in the next 10 min, with 1903 occasionally moving to a corner, or on top of the water bottle. She always responded to 1902's presence by remaining huddled. 1903 continued to explore around the arena. Conclusions from this are as follows: 1) Powder doesn't appear to affect behavior (eg 1902) 2) Powder was transferred in this case adequately to be considered "contact" in the field, 3) perhaps the 2 would interact more if they were previously associated (eg. a breeding pair?). Left around 2300 hrs with partition lifted <sup>so</sup> they could interact through the night.

July 17. 1400hrs. Cleaned out the cage, put female 1903 back into the left side and #1905 (♂) in the right side. Put #1902 ♂ in the small plastic cage.

(Found dead in trap 5 Aug. Cat No. 781)

new animals #1911 ♀ subadult, imp., nullip. 29.5g. Ear-tagged. Grid RC-1. St. 6, 16

July 18 1912 ♀ <sup>late</sup> subadult, imp., nullip. 33g. " " " " St. 6, 11.

1913 ♂ mature, TND. 41g " " Transect RC-2. St. 9.

ear-clipped 021(?) Tissues collected 14 Nov 87.

July 19 1914 ♂ early mature, TND. 28g GRID RC-1. St. 6, 9

1915 ♀ subadult, imp., nullip. 30g " " " St. 5, 11

1916 ♂ subadult, TND. 27.5g " " " St. 6, 10

2230hrs - Dusted #1902 ♂ with RED powder and put him in the enclosure with #1903 ♀. After staying still for 5 min (sniffing the air), he explored around the cage, but didn't encounter 1903.

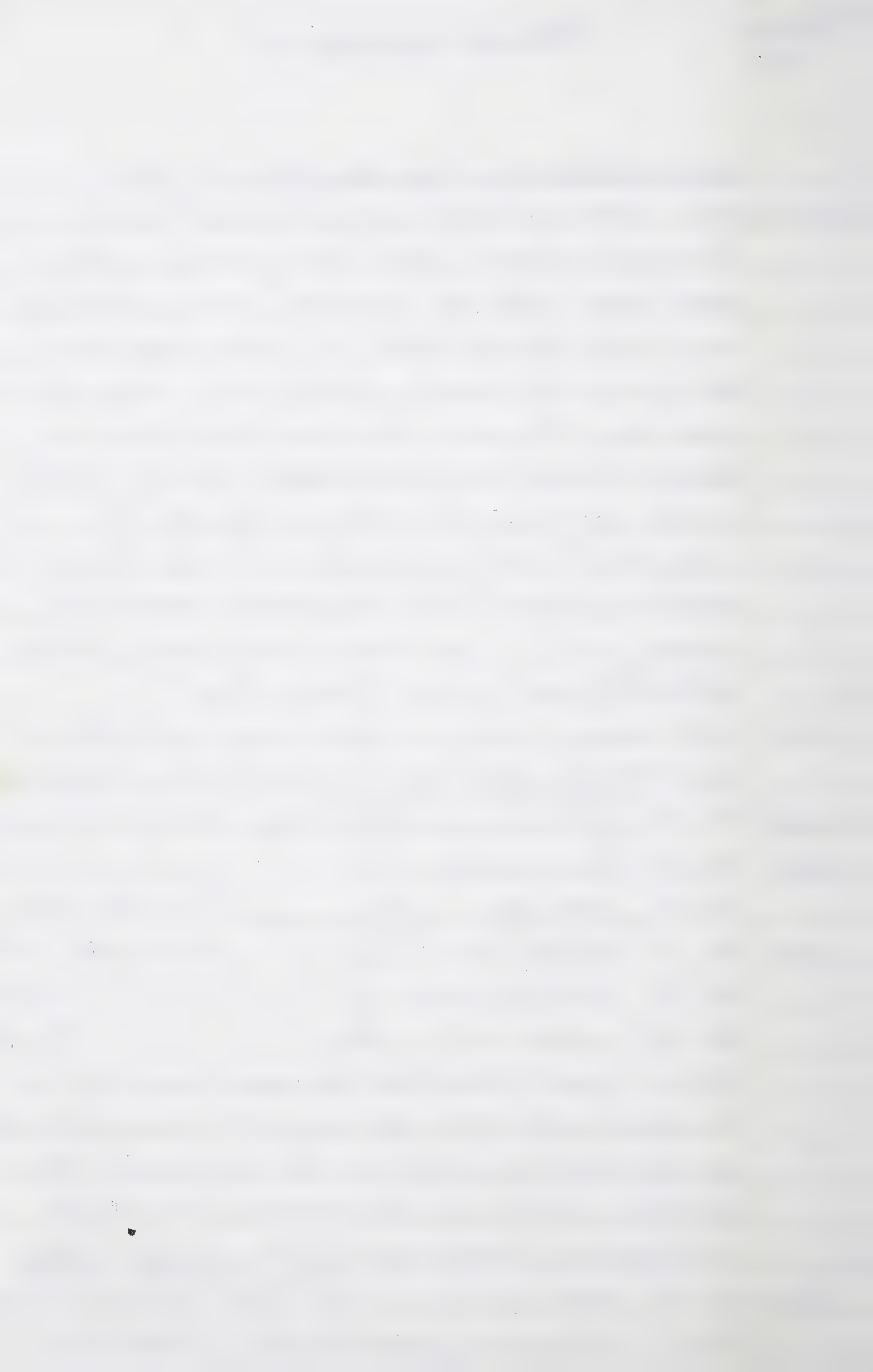
She stayed in the large box, then moved up to the H<sub>2</sub>O bottle.

We left after 10 min. - tomorrow night I'll check the ♀ for 2 colors

Ear, Saliva, Blood collected 14 Nov 87.

July 20 #1917 ♀ mature, imp., nulliparous. 35g. Ear-tagged. GRID RC-1. St. 3, 11

#1918 ♀ mature, pregnant (palpable). 52g. " " Transect RC-2 St. 9.





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (4)

Hastings Natural History Reservation, Monterey Co., Calif.

July 20 (cont) 2230hrs - checked #1903 for powder. She was covered with Red Pigment (ears, mouth, limbs, clitoris, tail, body) and the only place that Orange was visible was inside the ear next to the skull. Perhaps I should have waited so long to try the second color, but this does show that if Red follows Orange mostly Red is seen.

1903 & 1905 (♂) were huddled together upon arrival.

(New Animals) (Found dead in trap 5 Aug. Cat # 782)

July 21 #1919 ♀, mature, imp., parous, 38g. Ear-tagged. GRID DC-1. St. 9, 17

1920 ♀, " " nulliparous(?), 40.5g. " " " " 7, 16

1921 ♀, <sup>early</sup> mature, " nulliparous, 36g. " " <sup>Transect VIII,</sup> Robertson Creek St. 6

1922 ♂, subadult, TND. 30g. " " " " "

July 22 1925 ♂, <sup>white tail tip.</sup> " " 28g. " " " " 7

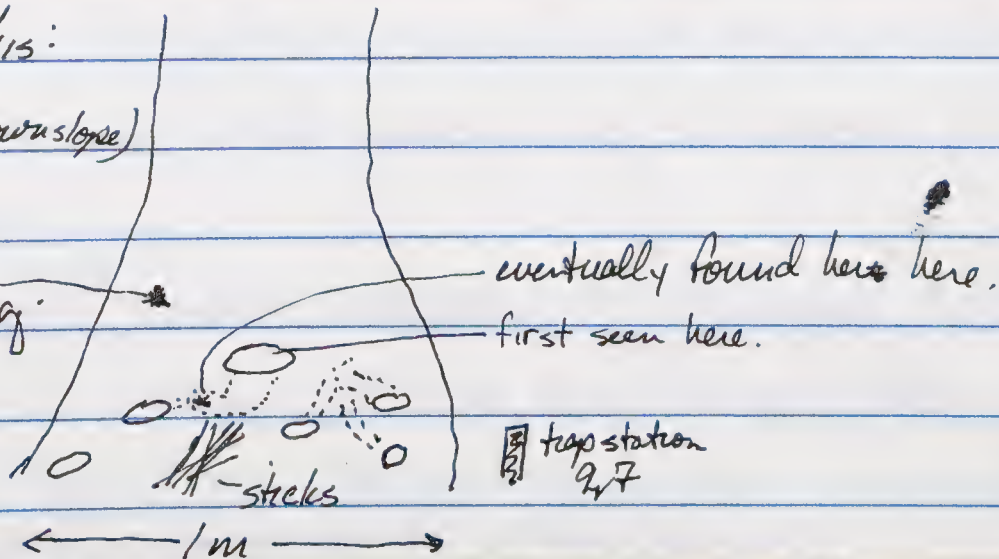
I cleaned out the behavioral arena this afternoon, and released #'s 1902, 1903, and 1905 at the 2nd Crossing. None of the animals were in reproductive condition upon release.

July 23 1926 ♂, Subadult, TND. 29g. " " GRID DC-1. St. 5, 11

Aug 6 M. Salvoni put a radio collar on ♂ #835 last night at station 5, 11. We dusted the collar with green powder. This morning after checking traps (0800hrs), Marco picked up her signal from the base of the Madrone at station 9, 7. There are 6 or so holes in the hard-packed clay in the hollow of the base of the tree, with ~20 pencil-sized sticks in one pile. It looks something like this:

Hollow faces N (downslope)

2nd nest site on 7 Aug.







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1987

PEROMYSCUS CALIFORNICUS (5)

Hastings Natural History Reservation, Monterey Co., Calif

Aug 6 (cont) I began digging using my hands and needle-nose pliers to pry soil loose. The clay was very hard packed and came out in chunks. She (#835) appeared briefly at one of the openings (see diagram above), and 5 min later I opened up the cavern and could see her <sup>(just big enough for her + pups)</sup> and at least 2, maybe 3 young. The nest was 'cup' shaped, made of ~~the~~ lichens & dried moss, and had an overhanging lip partially covering her & the pups. The pups were fully haired, gray on back, white on ventral side. I didn't see their eyes. While trying to decide how to reach her, she <sup>(with young attached)</sup> left the nest and climbed up into a connecting cavern, out of view. This cavern with the nest was about 3 fists big. I didn't want to dig anymore for fear of totalling destroying the site. We covered the hole into the nest with clay chunks, and set 4 traps in the hollow in case she tries to leave this site. I needed a long-pair of forceps and I probably could have caught her. We left at 0840, and will return shortly to try again. - 1015h. - we returned and just as I lifted the clay covering the nest cavern she went back up the same passageway as before. We closed all the traps and left. Tonight we hope to catch the young while the mother is away. 2340hrs - we caught #835 at station 4, 9, 30m from the nest site. We let 2340hrs - we could get a signal on #835 at the same nest site. We opened up the cavern and she was sit at the original nest site.

Aug 7 #1929 ♀, <sup>mature pelage</sup> subadult, perforate, nulliparous. 29g. Ear-tagged. Grid 2C-1 st. 5, 10  
We caught #835 at station 4, 9 - 30m from the nest site. We left her in the trap & tried to find the babies - No luck. Released her at the nest site and she escaped to a blind tunnel.





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (6)

Hastings Natural History Reservation, Monterey Co., Calif.

Aug 7 (cont)

We also put a <sup>radio-</sup>collar on #1928 this AM.

1030hrs - returned to try & find #835. I dug in deeper in the original nest cavern to locate her. I then heard a squeak next to my head. Through the cracks in old ant (or termite?) <sup>(feet from below the nest)</sup> diggings I could feel or nest with young. This was about ~1/2m above the original nest. I pried out some of the old ant diggings until the hole was barely big enough to reach my hand in. We tried in vain for over 30 min's to get #835, but she was very aggressive and bit at any incoming objects (fingers, tongue, forceps). <sup>(she was visible through the hole).</sup> We widened the hole with a crowbar and she escaped up a side tunnel. I couldn't see her but could feel her. It was difficult because I could feel the babies attached (again at least 2, maybe 3), but didn't want to pull them. I could never quite get a hold of #835. Eventually (another 15 min) she climbed up higher and I couldn't feel her. We ~~tried to~~ put Metofane soaked cotton in the hole for 3 min, but nothing happened. We then covered up this new nest site and went to radio-track #1928 (see description in Journal p. 28). We came back after 15 min and still no sign. We left after covering up the hole into the nest. I also found and collected 2 Peromyscus carcasses in this nest site. I should clean these and verify species and age.

new animal

#1930 ♀, mature, imperforate, parous. 41.5g. Ear-tagged Grid EC-1, St. 9, 18

Aug 8

See Journal for another unsuccessful attempt at reaching #835.

new animal

#1931 ♀. Subadult, imperforate, nulliparous. 32.5g. Ear-tagged. Grid EC-1, St. 5, 17  
retagged 1979 on 15 Nov. 87.  
Ear, saliva, blood collected 15 Nov.





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (7)

Hastings Natural History Reservation, Monterey Co., Calif.

Aug 10. Finally caught # 835 w/ young at a 3rd nest above the second. I inserted a cotton ball with a good dose of metopone into the small (~ 30mm diameter) hole and she subsequently appeared at the second nest site. She retreated back when I tried to grab her. I then removed the cotton and she then jumped out of the hole immediately with young attached into my hands. The young were difficult to detach from her teats, but by applying firm but gentle pressure to their snouts they let go. While processing the young, I left the mother in a trap. The young were moderately agile, eyes opened, and they weren't biting. All squeaked when handled. I ear clipped these #11-13. They would have been old enough for ear samples and blood.

Tagged 1952  
Oct 12

#011 ♂ Immature. 127-65-23-14 = 12.4g. Ear-clipped. Grid DC-1 #835 ♀♀

Tagged 1945  
See SPP Acct  
4 Oct 87

#012 ♀ " 132-66-23-14 = 12.7g " " "1

Tagged 1942  
Oct 5

#013 ♂ " White-tail Tip 129-62-22-12 = 11.9g " " "

After processing, I put each one back in the trap with the mother. I then opened the trap and held it next to the hole & she went back in with young attached and settled in the nest. Total handling time was ~15 min.

The radio-transmitter was not on her and appears to be in the tunnel connecting the 2nd & 3rd nests.

Success!





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (8)

Hastings Natural History Reservation, Monterey Co., Calif.

|                                                                                                                                                                                                                                                                                                     |                                                                                                |   |                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| Oct. 1                                                                                                                                                                                                                                                                                              | #1939                                                                                          | ♂ | Late <sup>subadult</sup> <del>mature</del> , TND, 32g. Ear-tagged. Grid MC-1. St 9, 18. Blood, ear, Saliva coll. |
|                                                                                                                                                                                                                                                                                                     | 1940                                                                                           | ♂ | Mature, TND. 35g " - " Drift fence on MC-1. St. E-7 (in) " "                                                     |
| ed left ear # 1141<br>20 Dec 1987                                                                                                                                                                                                                                                                   | 1941                                                                                           | ♂ | Mature, scrotal, 37g. " - " Grid MC-1. St. 9, 10. " "                                                            |
| Oct. 2                                                                                                                                                                                                                                                                                              | 1943                                                                                           | ♀ | Mature, perforate, parous. 40.5g " - " " " " 11, 15 " "                                                          |
| Oct. 4                                                                                                                                                                                                                                                                                              | (012)<br>1945                                                                                  | ♀ | Subadult, nulliparous. 31.5 " - " Drift fence on RC-1. St. W-3 (out) " "                                         |
| <p>Young of #835 previously ear-clipped #012. Subadult pelage - much thicker than immature pelage with some brown in coat and brown around ear.</p> <p>Faint green powder in side of ears. * Forgot to toss drop of heparin out of tube prior to adding blood. Measurements: 211-118-27-28.5mm.</p> |                                                                                                |   |                                                                                                                  |
| Oct 5                                                                                                                                                                                                                                                                                               | 1949                                                                                           | ♂ | Subadult, TND. 27.5g " - " Grid MC-1. St. 5, 10 Blood ear, saliva, coll                                          |
| <p>Young of #835 previously ear-clipped #013. Faint green powder in ear</p> <p>Measurements 206-111-27-24.5mm</p>                                                                                                                                                                                   |                                                                                                |   |                                                                                                                  |
| See Journal this day for description of another nest of #835's found.                                                                                                                                                                                                                               |                                                                                                |   |                                                                                                                  |
| Oct 9                                                                                                                                                                                                                                                                                               | 1951                                                                                           | ♂ | Imm, TND. 11g. 174mm total length. Grid RC-1. St. 8, 12                                                          |
| <p>Covered with Red Pigment so most likely offspring of #1079. Blood, Ear, Saliva tissues collected.</p>                                                                                                                                                                                            |                                                                                                |   |                                                                                                                  |
| Oct 12                                                                                                                                                                                                                                                                                              | (011)<br>1952                                                                                  | ♂ | Imm, TND. 29.5g. Ear-tagged. Grid RC-1. St. 9, 18.                                                               |
| <p>Young of #835 previously ear-clipped 011. Blood, Ear, Saliva tissues collected</p>                                                                                                                                                                                                               |                                                                                                |   |                                                                                                                  |
|                                                                                                                                                                                                                                                                                                     | 1954                                                                                           | ♀ | Sub., impt, nullip. 30g. Ear-tagged. Grid RC-1 St. 7, 16 Blood, Ear, Saliva coll                                 |
| toe-clipped #0200<br>on 13 April 88                                                                                                                                                                                                                                                                 | 1955                                                                                           | ♂ | Imm, TND. 17.5g. Ear-tagged. " " St. 5, 14                                                                       |
| <p>Covered w/ Red Pigment and captured at same station as mother #1079 Blood, Ear, Saliva, Coll</p>                                                                                                                                                                                                 |                                                                                                |   |                                                                                                                  |
| Oct 13                                                                                                                                                                                                                                                                                              | 1967<br>0100                                                                                   | ♂ | White tail tip Imm. 94-40-19-11=9g Toe-clipped                                                                   |
| See<br>2 Nov<br>Spp Acct<br>Retagged.                                                                                                                                                                                                                                                               | 1966<br>0200                                                                                   | ♀ | White tail tip Imm. 98-40-18-10.5=8.5g " - "                                                                     |
|                                                                                                                                                                                                                                                                                                     | 1965<br>0300                                                                                   | ♀ | " 98-43-19-11=9.5g " - "                                                                                         |
|                                                                                                                                                                                                                                                                                                     | <p>Young of ♀ #835 retrieved from nest and toe-clipped. Same nest site for #835 as before.</p> |   |                                                                                                                  |

We radio-collared 3 animals early this morning: #835 ♀ (channel #3), 1079 ♀ (Ch. #11), and #1020 ♂ (Ch 7). 1020 is suspected mate of ~~#835~~ #835. 1200hrs - M. Salvioni got a signal from #835 at her nest by station 7, 9; #1079 to east of station 8, 12; and #1020 to the NW of station 6, 11 on north side of creek. Thus, #1020 is not nesting with #835 during the day, at least not today.





RIBBLE, D.O.  
1987

Peromyscus californicus (9)

Hastings Natural History Reservation, Monterey Co, Calif.

Oct 13 (cont). Tonight we radio-tracked #s 835, 1079, & 1020 from 2100 to 2355 hrs. See copy of M. Salvioni's data sheet for details. ~~The~~ Around 2300 hrs # 835 left her nest and # 1020 ♂ entered and stayed for ~10 mins!! Exciting information.

Oct 14. 0900 hrs - M. Salvioni checked on locations and found # 835 and # 1020 at nest site, presumably together. See Radio-collared data for complete data

Oct 15 See Radio-collared data for location data

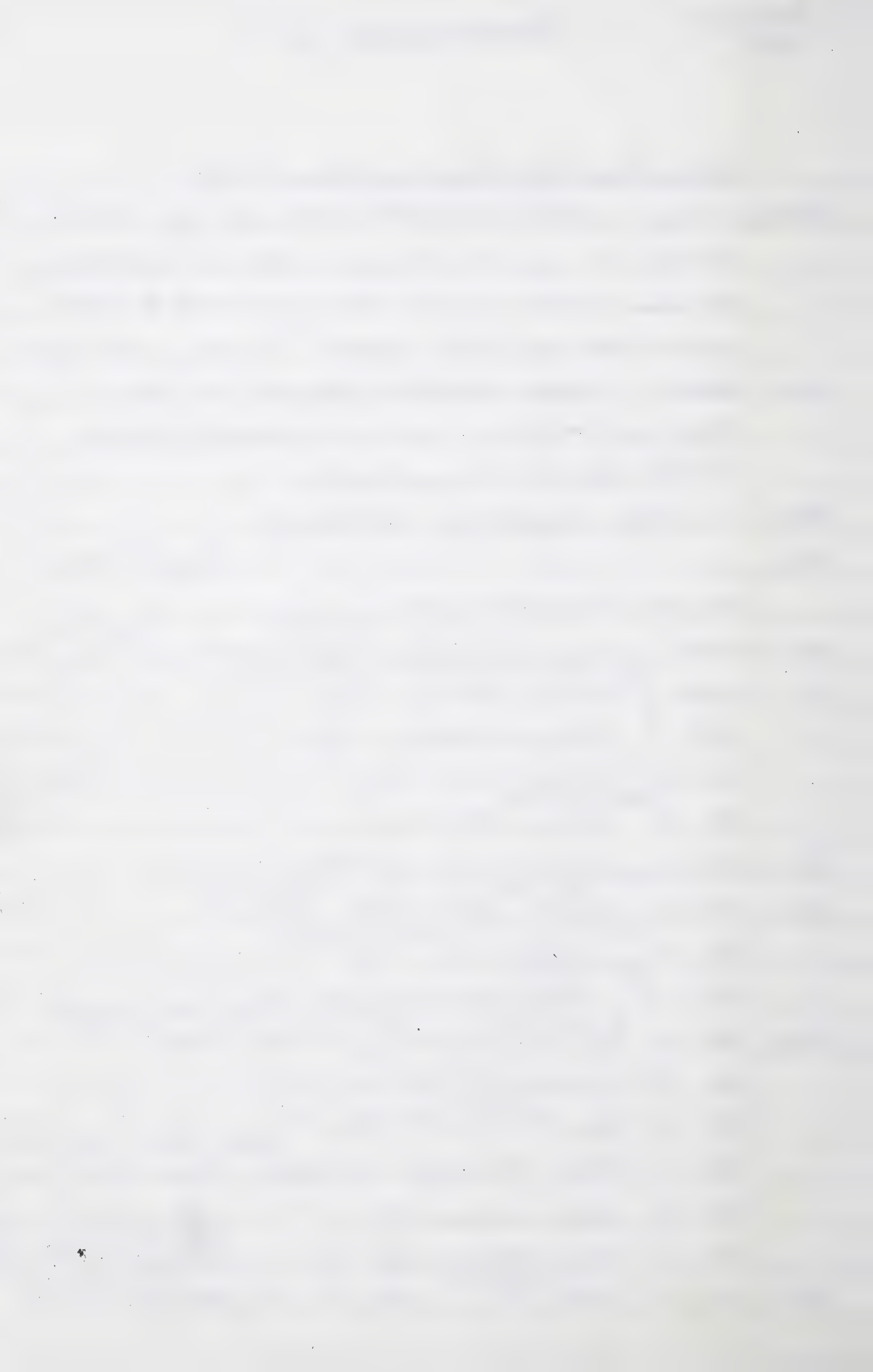
Oct 16. " " - " " " " " " Trapped # 835

This A.M. and removed her collar.

| Date   | #    | Sex | Age                        | Weight | Notes                                                       | Transect                   | St.                       |
|--------|------|-----|----------------------------|--------|-------------------------------------------------------------|----------------------------|---------------------------|
| Oct 18 | 1957 | ♀   | Mature, post, nulliparous. | 41.5g  | Ear-tagged. Scar on back between shoulders. White tail tip. | Transect K11, west ravine, | St #1.                    |
| Oct 19 | 1958 | ♂   | Mature, TND (close).       | 32g    | " - "                                                       | " "                        | St. #1                    |
|        | 1959 | ♀   | Mature, post-lactating.    | 39.5g  | " - "                                                       | " "                        | St. 11                    |
|        | 1960 | ♂   | Immature, TND.             | 18.5g  | " - "                                                       | " "                        | St. 5                     |
|        | 1961 | ♂   | Mature, TND.               | 36g    | " - "                                                       | " "                        | both caught in same trap! |

Oct. 20 See Journal this day concerning # 835 & her nest.

| Date    | #    | Sex | Age                         | Weight                 | Notes                                                                 | Transect         | St.          |
|---------|------|-----|-----------------------------|------------------------|-----------------------------------------------------------------------|------------------|--------------|
| Oct. 21 | 1962 | ♂   | Mature, scrotal.            | 41.5g                  | Blood-saliva-ear. (tagged left ear) Ear-tagged                        | " "              | # 2          |
|         | 1963 | ♀   | Subadult, nullip.           | 26g                    | Blood-saliva-ear. White tail tip + white band                         | " "              | # 5          |
|         | 1964 | ♀   | Mature, parous, early prog. | 38g                    | Blood-saliva-ear                                                      | " "              | # 20         |
| Nov 3   | 1965 | ♀   | Imm.                        | 156-75-24.5-20 = 17.3g | Young of # 835 (0300). Blood, saliva, ear collected. Hemo. not washed | GR10 RC-1.       | St. 6, 11    |
|         | 1966 | ♀   | Imm.                        | 160-82-23-20 = 15.5g   | " (0200) " " " " " "                                                  | " "              | "            |
|         | 1967 | ♂   | Imm.                        | 155-77-24-20 = 16.5g   | " (0100) " " " " " "                                                  | " "              | 5.8          |
|         | 1968 | ♂   | Mature, TND.                | 34g                    | Blood, ear, saliva coll. Hemo. not washed                             | GR10 RC-1.       | St. 6, 10    |
|         | 1969 | ♀   | SAD. nulliparous.           | 31g                    | " - "                                                                 | " "              | "            |
|         | 1970 | ♂   | Mature TND (close).         | 34g                    | Blood, saliva, ear collect.                                           | Drift line RC-1, | St. W-3 (in) |
| Nov. 9  | 1971 | ♂   | Mature. TND.                | 35g                    | White tail-tip. Blood, saliva, ear collect.                           | GR10 MC-1.       | St. 9, 8     |





ZIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS (10)

Hastings Natural History Reservation, Monterey Co., Calif.

- Nov. 12 #1975 ♀ Immature, nulliparous. 25g. Ear-tagged. <sup>Blood, ear, saliva collected.</sup> RC-1 drift fence, St. E-10 (out)  
1976 ♀ Mature, <sup>post-lactating(?)</sup> parous, <sup>11/11</sup> ~~parous~~ 44g. " - " <sup>Blood, ear, saliva collected 13 Nov.</sup> Grid MC-1. St. 10, 6.  
Nov. 13 1977 ♂ Subadult, TND. 27g " - " <sup>Blood, ear, saliva collected.</sup> RC-1 drift fence, St. E-9 (in)

Nov. 14 ~~Nov. 14~~ ~~Nov. 14~~ 2200hrs - tonight M. Salvioni and I radio-collared

#1943 (♀ - lactating) at station 9, 12. Radio is on channel #3.

We had hoped to catch ♂ #1941 who is her suspected mate (RED powder was transferred from #1943 to #1941).

Nov. 14 This am we received the radio-signal from 1943 at station 9, 10. At this spot there is an old Neotoma midden (very flat, small twigs only, and alot of litter) at the base of a small Bay tree (3m high). There is an apparent entrance at the top next to some rocks.

2200hrs - we came out to ~~the~~ grid MC-1 tonight to try and catch #1941 ♂ and radio-track #1943. 1943 was captured at 9, 10 without her collar. The signal was coming from the ~~the~~ old midden so we began to carefully excavate the nest in search of the ~~red~~ collar.

There were several passageways throughout the ~~the~~ midden with smatterings of red powder. After ~30 min of digging, we came to a tunnel that made a sharp hairpin turn into the side of the hill, ending in a nest chamber about 1½ fists big. There was a lichen ~~nest~~ and moss nest that seemed fresh and the collar was in it. The collar had been chewed off just to the side of the transmitter, and the locking mechanism was chewed up. Obviously, some other animal had chewed it off, and based on the size of the chew marks





RIBBLE, D. O.  
1987

Peromyscus californicus (II)

Hastings Natural History Reservation, Monterey Co., Calif.

Nov. 14 (cont.) and strength of the plastic we don't think the pups could have done it. Thus, it must have been her mate.

In addition, we found an old carcass that only had ~~leg bone~~ post-cranial material next to an ear tag #1042 (tagged 26 March). We released #1943 after dusting her <sup>Red</sup> and she escaped under a live oak just above the nest. Didn't catch #1941 ♂ in any of the traps.

Obviously, we need to develop a different collar to hold the radio on!

|        |      |   |           |      |             |                                |                               |
|--------|------|---|-----------|------|-------------|--------------------------------|-------------------------------|
| Nov 16 | 1982 | ♂ | Imm, TND. | 28g. | Ear-tagged. | Trapped west of Grid DC-1.     | Blood, ear, saliva collected. |
| Nov 18 | 1983 | ♂ | SAD, TND. | 31g  | "           | Drift fence DC-1. St. W-4 (in) | " " "                         |

Caught #1952 ♂ on transect east of Grid DC-1, covered with ORANGE powder. Must be mate of #1931 which was dusted last night.

|        |      |   |           |      |             |                                |                               |
|--------|------|---|-----------|------|-------------|--------------------------------|-------------------------------|
| Nov 18 | 1983 | ♂ | SAD, TND. | 31g. | Ear-tagged. | Drift fence DC-1. St. W-4 (in) | Blood, saliva, ear collected. |
|--------|------|---|-----------|------|-------------|--------------------------------|-------------------------------|

Caught #1914 ♂ with RED powder covering body this morning on transect west of DC-1. Must be mate of #1917 which was dusted last on 16 November.

This afternoon while resetting traps, I moved some previously set traps east of Grid DC-1 closer to the stream and found the potential nest site of #1931. It is a fallen live oak that still has most of its branches intact (no leaves), about 40 cm dbh. The end closest to the stream (base) has many smatterings of ORANGE powder. I set 2 traps there and I hope to catch the ♀ (193) before going in on the nest.

2200 hrs. - caught #1931 at the site mentioned. Before releasing her, I looked for a nest, but I think this tree is only a refuge site. There's no place for a nest. Redusted #1931 and she





RIBBLE, D.D.  
1987

PEROMYSCUS CALIFORNICUS (12)

Hastings Natural History Reservation, Monterey Co., Calif.

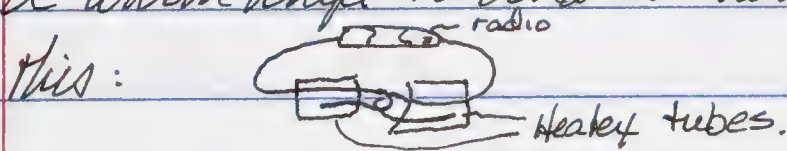
Nov 18 (cont) escaped downstream.

On Grid MC-1 I trapped both 1943 & 1941 at station 9, 10. I dusted 1943 <sup>(lactating)</sup> and she escaped into ~~an~~ <sup>a</sup> hole above the midden at the station. The ♂, 1941, I escaped to the same place. Prior to this, this hole did not have any powder in it; so I don't think this is their nest.

|        |       |   |                   |      |             |                                              |                               |
|--------|-------|---|-------------------|------|-------------|----------------------------------------------|-------------------------------|
| Nov 19 | #1101 | ♀ | Imm, nulliparous. | 27g. | Ear-tagged. | Transect West of Grid MC-1                   | Ear, saliva, Blood, collected |
|        | 1102  | ♀ | "                 | "    | 29g         | " - " . Grid MC-1 drift fence. St. W-9 (lin) | " "                           |

Nov 28 2130hrs - put a radio-collar on #1943 ♀ on Grid MC, station 9, 10.

She recovered from the metofane very slowly, and I released her above the ~~Nest~~ midden at the station. She escaped down a hole above the midden beneath a Bay tree. These are new collars designed by Marco which ~~have~~ use insulated wire as the collar. The 2 ends are then hooked over each other, a plastic "heatex" tube is placed over the ends, and heated with a warm knife to bind to the wire. It looks something like this:



|        |       |   |                   |      |             |                     |                         |
|--------|-------|---|-------------------|------|-------------|---------------------|-------------------------|
| Nov 29 | #1104 | ♀ | SAD, nulliparous. | 31g. | Ear-tagged. | Grid MC, st. 10, 7. | Blood, ear, saliva coll |
|        | 1106  | ♂ | Mature, TND.      | 33g. | " - "       | Grid MC st. 5, 11.  | " "                     |

1600hrs - we received radio-signal from 1943 at the base of a Buckeye, ~5m SE of station 9, 11.

Nov. 30 2215hrs - received radio-signal from both 1943 & 1941 in nest SE of 9, 11. Hole to nest is covered with Red powder. It is at the base of an old Buckeye snag about 1.5m high. The ground around it is covered with moss. This nest would be hard, if not impossible, to excavate for young without destroying.

158-06-24-19

$$\begin{array}{r} 20.4 \\ - 6.1 \\ \hline 14.3 \end{array}$$



LIBBIE, D.D.  
1987

PEROMYSCUS CALIFORNICUS

(13)

Hastings Natural History Reservation, Monterey Co., Calif.

Dec 1 Marco went out on Grid MC this am to get locations on 1943 & 1941. He couldn't get a signal from either animal, and he searched all around the grid for signals. Perhaps they have chewed through the radio mechanism. This PM we set traps on the top 2 rows of MC to try and catch these 2 animals. Also this AM on Grid RC we radio-collared #1079 ♀ (pregnant, probably lactating) and dusted her with NEW RED POWDER. Later this AM (1100 hrs) we got <sup>a</sup> signal from her between stations 6,14 & 5,14. It was coming from a log ~60 cm diameter covered with blackberry, grasses, and poison oak.

Dec 2 We didn't catch #1943 or 1941 today. We set traps on the top 2 rows of MC this afternoon to try and catch them. This afternoon we radio-tracked #1079 <sup>(1630 hrs)</sup> to a dead Salix snag 3 m N. of 6,12. The snag is ~.3 m dbh and stands ~3 m high at which point it is broken. The strongest signal was received without the antenna at 2 m above the ground. The bottom of the snag has a hole at ground level which could be used for entry.

2230 hrs - caught #1941 ♂ at station 10,11 on Grid MC. The collar was in good shape except for a few gnawing on the collar and one corner of the radio with no wires exposed. It was chewed to the metal, so perhaps moisture inside shorted the radio (?). We removed the collar and released him in good shape.

Dec 3 1110 ♂ Immature. TWD. 14.3g Ear-tagged. Grid MC-1, St. 9,11. <sup>Blood, Saliva, Ear Collected</sup>  
Young of ♀♀ 1943 (covered w/RED POWDER). 158-86-24-19 = 14.3g.  
Released at probable nest hole.

1111 ♂ SAD. TWD 30g Ear-tagged Grid MC. St 10,10. <sup>Blood, Saliva, Ear Collected</sup>  
No sign of any powder





ZIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS

(14)

Hastings Natural History Reservation, Monterey Co., Calif.

Dec 3 (cont). This PM we finally caught #1943 ♀ near station 9, 11. She was still lactating. Her radio-collar was a mess! The collar part was chewed extensively. Wires were spread apart. One end of the radio part was completely chewed through <sup>(opposite from the battery)</sup> the coating, exposing wires and hardware. Marco removed the collar with a tug and we released her in good shape.

Dec 9 #1113 ♂ Immature, TND. 22g. Ear-tagged Grid W-R, St. 15, 12. <sup>Blood, ear, saliva</sup>

#1116 ♂ Mature, scrotal. 36g " - " " " St. 7, 5. "

#1118 ♂ SAD, TND. 31g " - " " " " 6, 4. "

#1119 ♀ SAD, nulliparous 30g " - " " " " 6, 5. "

1121 ♂ Mature, scrotal. 36g " - " " " " 12, 10. "

1122 ♀ late SAD, nulliparous. 32.5g " - " " " " 10, 10. "

1125 ♀ SAD, nulliparous 28g " - " " " " 8, 5. "

Dec 10 1127 ♂ SAD, TND 28g " - " " " " 3, 2. "

1123 ♀ SAD, nulliparous <sup>32.5g</sup> 28g " - " RC drift fence St. W-9 (cont) "

PM - see Journal for probable breeding pair on Grid WR: #1957 ♀ & #1958 ♂

Dec 16 1128 ♂ Imm, TND. 22g " - " <sup>Possibly young of 1976 ♀♀ - see Journal of November.</sup> Grid MC, St 9, 5. <sup>Blood, ear, saliva collected</sup>

1129 ♂ Mature, scrotal. 35g " - " Grid MC St 9, 16. "

Dec 17 1130 ♀ Imm, nullip. 19.5g " - " " " " 9, 10. "

[Probably young of #1943. Appears to have RED Powder on feet. Yes, Red on feet, ears, around mouth and neck (confirmed in darkness)]

Dec 18 1133 ♀ Imm, nullip. 18.5g " - " Grid MC St. 9, 10. <sup>Blood, ear, saliva collected</sup>

[Young of #1943. Has RED powder on ears, mouth, feet, tail, ventral side, around eyes]

1135 ♀ Imm, nullip. 20g. " - " <sup>Transsect east RC.</sup> ~~Grid MC~~ <sup>Blood, ear, saliva collected</sup>

[No visible powder on animal. Possible it's offspring of #1931 ♀♀, but it should have had ORANGE powder, but not a ~~spot~~ <sup>gran</sup> was found]

#1136 ♀ Imm, nullip. 22g. " - " Grid RC St. 6, 14. <sup>Blood, ear, saliva</sup>

[Definite RED powder on inside of ears and most easily seen on back of ears next to skull. Same pattern seen on 1137 & 1139 below.]

Therefore, young of #1079 ♀♀





RIBBLE, D.O.  
1987

PEROMYSCUS CALIFORNICUS

15

Hastings Natural History Reservation, Monterey Co., Calif.

Dec 18 (cont) #1137 ♀ Imm, nullip. 22g. Ear-tagged. Grid RC, St 5, 14. Blood, ear, saliva coll.

[ ~~Covered~~ Ears covered with RED powder. Young of #1079 ♀♀  
\* Note Journal 20 Dec. This animal covered with fresh powder from 1079.

Dec 19 1139 ♂ Imm, TND. 23g. " - " " " " 5, 13. Blood, ear, saliva coll.

[ Ears covered with RED powder. Young of #1079 ♀♀

1138. ♂ SAD, TND. 29g. Ear-tagged. McClellan, E-11 (in). Blood, ear, saliva coll.

Dec 20 1140. ♀ Imm, nullip. 21.5g. " - " East of RC. Blood, ear, saliva collected.

[ Covered with fresh ORANGE powder from ♀ #1931 (1979). So ♀ #1931 is most probably mother.





RIBBLE, D.O.  
1987

Peromyscus maniculatus (L)

Hastings Natural History Reservation, Monterey Co., Calif.

|          |       |                                                                                       |              |                                        |               |
|----------|-------|---------------------------------------------------------------------------------------|--------------|----------------------------------------|---------------|
| Feb 2    | 0220  | ♂, mature, TND, 22g.                                                                  | Tee-clipped. | Grid RC-1                              | Station 5, 17 |
| March 28 | 0130  | ♀, mature, imp, parous, 17g                                                           | "            | Traplined<br>on RC-1                   | " 2           |
|          | 0230  | ♂, mature, scrotal, 20g                                                               | "            | "                                      | " 6           |
| March 29 | 0300  | ♀, mature, imp, nullip, 17g                                                           | "            | "                                      | " 6           |
|          | 01100 | ♀ " " Parous, 21g                                                                     | "            | "                                      | " 10          |
|          | 0100  | ♂, mature, TND, 14g                                                                   | "            | Grid MC-1                              | St. 5, 5      |
|          | 0230  | ♂, <sup>early</sup> mature, TND, 15g                                                  | "            | Grid RC-1                              | St. 5, 12     |
| July 19  | 01230 | <del>(clipped wrong #, should be 0220)</del> changed 20 July<br>♂, subadult, TND, 14g | "            | "                                      | " 6, 14       |
| Nov. 13  | 0100  | ♀, subadult, nullip. 21g                                                              | "            | Grid MC-1 drift fence,<br>St. W-7 (in) |               |
| Nov. 24  | 0310  | ♀, " " 14g                                                                            | " - "        | Grid RC-1.                             | St 6, 14      |
| Nov. 25  | 0320  | ♀ Mature, impregnate, parous. 22g                                                     | " - "        | RC drift fence.<br>St. W-4 (in)        |               |
| Nov 26   | 0330  | ♀ Mature, pregnant. 15.5g                                                             | " - "        | RC drift fence<br>St. W-11.            |               |
| Dec 15   | 010   | ♀ SAD, nullip. 15g.                                                                   | " - "        | Grid MC.                               | St. 8, 17     |
| Dec 19   | 0340  | ♂ SAD, TWO 15g                                                                        | " - "        | RC drift fence, St W-3 (out)           |               |





ZIBBLE, D.O.  
1987

Peromyscus truei (1)

Hastings Natural History Reservation, Monterey Co., Calif

|          |       |                                              |              |                      |                |
|----------|-------|----------------------------------------------|--------------|----------------------|----------------|
| Feb 2    | 1037  | ♂, mature, TND, 21g.                         | Ear-tagged.  | Grid MC-1            | Station 9,5    |
| March 26 | 0120  | ♂, mature, TND, 22g.                         | Toe-clipped  | " "                  | " 10,11        |
| March 28 | 1065  | ♀, mature, imp, nullip(?), 22g.              | Ear-tagged   | " "                  | " 10,7         |
| June 4   | 0140  | ♂ mature, scrotal, 22g.                      | Toe-clipped. | " "                  | " 10,9         |
| June 6   | 0220  | ♂ Immature, TND, 15g.                        | "            | "                    | " 9,10         |
| July 14  | 0300  | ♂ Immature, TND, 12g.                        | "            | "                    | " 10,6         |
|          | 0310  | ♀ " , nullip. 9.5g                           | "            | "                    | " 10,11        |
| July 15  | 0320  | ♂ " , TND - 11g                              | "            | "                    | " 10,7         |
| July 17  | 0330  | ♀ " . nullip. 10g                            | "            | "                    | " 10,10        |
| Aug 15   | 0340  | ♀ Mature, parous, post-lactating. 27.5g      | "            | "                    | " 9,8          |
|          | 0440  | (clipped wrong initially - clipped 040)      |              |                      |                |
| Oct. 1   | 0400  | ♂ Mature, scrotal. 26.5g                     | "            | Drift fence on MC-1. | St. W-13 (out) |
| Oct. 2   | 0440  | ♀ Mature, scrotal. 24g.                      | "            | "                    | St. W-13 (in)  |
|          | 03400 | (reclipped mistakenly 19 Oct.)               |              |                      |                |
| Oct. 4   | 0400  | ♀ Late Subadult, peripart, lactating. 24.5g. | "            | Drift fence on MC-1. | St. W-13 (out) |
|          |       | id questionable.                             |              |                      |                |
| Oct. 21  | 03140 | ♂ Immature, 13g.                             | Toe-clipped. | Drift fence on MC-1. | W-13 (out)     |
| Nov. 9   | 0410  | ♂ early SAD, TND. 17g.                       | " - "        | GRID MC-1.           | St. B, 5       |
|          | 0420  | ♀ SAD pelage, lactating. 26g                 | " - "        | "                    | " 11,15        |
| Nov. 11  | 0430  | ♂ Imm, TND 14g                               | " - "        | "                    | " 10,9.        |
|          | 01100 | ♂ " " 14.5g                                  | " - "        | "                    | " 10,10        |
| Nov. 11  | 01110 | ♂ " " 15g                                    | " - "        | "                    | " 10,8         |
| Nov. 12  | 01120 | ♂ " " 17g                                    | " - "        | MC-1 drift,          | St. E-7 (in)   |
| Nov. 23  | 01130 | ♀ Imm, nullip. 22g                           | " - "        | GRID MC.             | St 9,8         |
| Nov. 24  | 01140 | ♂ " , TND. 17g                               | " - "        | "                    | " 9,13         |
|          | 01210 | ♂ " " 17g                                    | " - "        | MC drift fence.      | St. E-1 (in)   |
| Dec 9    | 010   | ♂ Mature, TND. 24.5g                         | " - "        | GRID WR.             | St. 14,10      |
|          | 020   | ♂ " , scrotal. 20g                           | " - "        | "                    | " 10,10        |
|          | 030   | ♂ " , TND 24.5g                              | " - "        | "                    | " 3,2          |
| Dec 10   | 0100  | ♀ Mature, lactating. 30g                     | " - "        | "                    | " 1,2.         |





RIBBLE, D.O.  
1987

Peromyscus truei (2)

Hastings Natural History Reservation, Monterey Co., Calif.

Dec 15 #01220 ♂ SAD, TND. 21g. Toe-clipped. GRID MC, St 8, 15

Dec 17 01230 ♂ SAD, TND. 20g " - " , " " St 10, 10

Dec 20 01240 ♀ Imm, nullip. 17g " - " , " " " 10, 10

01300 ♀ SAD, nullip. 20g " - " , " " " 9, 8





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1987

Neotoma fuscipes (1)

Hastings Natural History Reservation, Monterey Co., Calif.

|          |                         |                                              |                                      |
|----------|-------------------------|----------------------------------------------|--------------------------------------|
| Feb. 1   | 1028                    | ♀, mature, imp., parous                      | Ear-tagged, Grid RC-1, Station 7, 17 |
|          | 1029                    | ♂, mature, scrotal                           | " " " " " 6, 17                      |
|          | 1030                    | ♀, mature, imp., nullip.                     | " " " " " 5, 13                      |
|          | 1031                    | ♂, mature, TND                               | " " " " " 7, 12                      |
|          | 1032                    | ♀, mature, imp., nullip                      | " " " " " 5, 11                      |
|          | 1033                    | ♀, mature, parous, <sup>maybe</sup> pregnant | " " " " " 5, 10                      |
| March 27 | 1044                    | ♀, mature, imp., parous                      | " GRID RC-1, 7, 15                   |
|          | 1045                    | ♂, mature, scrotal                           | " " 5, 13                            |
|          | 1047                    | escaped after tagging.                       | " " 5, 10                            |
| March 28 | 1053                    | ♂, mature, scrotal                           | " " 8, 13                            |
|          | 1066                    | ♀, mature, imp., nullip(?)                   | " GRID MC-1 10, 14                   |
|          | 1048                    | ♀ " " parous                                 | " Trapline B on RC-1 St. 7           |
|          | 1054                    | ♂, mature, scrotal                           | " Trapline A on RC-1 St. 1           |
|          | 1055                    | ♀, mature, imp., parous                      | " " 2                                |
|          | 1056                    | ♀ " " "                                      | " " 7                                |
|          | 1060                    | ♂ mature, scrotal                            | " Trapline A on MC-1 St. 9           |
| March 29 | 1069                    | ♂ mature, scrotal                            | " GRID MC-1 St. 6, 12                |
| June 2   | 1077                    | ♀ mature, parous, imp.                       | " GRID RC-1, St. 6, 16               |
|          | 1080                    | ♀ immature, nullip.                          | " " 5, 11                            |
|          | <del>1083</del><br>1084 | ♂ immature, TND, B9g                         | " " 5, 10                            |
|          | 1085                    | ♂ mature, TND,                               | " " 7, 12                            |
| June 3   | <del>1083</del><br>1084 | ♀ mature, parous, imp.                       | " " 4, 8                             |
|          | 1087                    | ♂ mature, TND                                | " " 6, 16                            |
|          | 1081                    | ♀ mature, imp., nullip.                      | " GRID MC-1. St. 6, 11               |
|          | 1082                    | ♀ mature, imp., nullip                       | " " 5, 8                             |
| June 4   | 1088                    | ♂ mature, TND                                | " GRID RC-1. St. 8, 10               |





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1987

NEOTOMA FUSCIPES (2)

Hastings Natural History Reservation, Monterey Co., Calif.

|                             |                                    |                                                                                            |                               |                                        |
|-----------------------------|------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| June 5                      | # 1091                             | ♂ immature, TND, Big <sup>Ear tag</sup>                                                    | GRID RC-1.                    | St. 6, 17                              |
|                             | 1092                               | ♂, mature, TND.                                                                            | " GRID MC-1.                  | St. 10, 12                             |
| July 12                     | 1095                               | ♂, early mature, TND                                                                       | " " "                         | " 9, 9                                 |
| July 14                     | 1099                               | ♀, mature, imp., parous                                                                    | " " "                         | " 5, 9.                                |
| July 16                     | 1907                               | ♂, mature, TND.                                                                            | " Transect A-2, east of MC-1. | St. 1.                                 |
| July 17                     | 1909                               | ♂, early mature, TND.                                                                      | " GRID MC-1.                  | St. 6, 11                              |
|                             | 1910                               | ♀, mature, imp., parous.                                                                   | " Transect A-2, east of MC-1. | St. 1                                  |
| July 22                     | 1923                               | ♀, " , " , " .                                                                             | " GRID RC-1.                  | St. 7, 17                              |
|                             | 1924                               | ♂, immature, TND.                                                                          | " " "                         | " 4, 8                                 |
|                             | (not new, rt. ear tag ripped-out). |                                                                                            |                               |                                        |
| July 23                     | 1926                               | ♂, mature, TND.                                                                            | " " "                         | " 5, 9                                 |
| Aug 13                      | 1932                               | ♀, mature, imperforate                                                                     | " GRID MC-1.                  | St. 6, 12                              |
| (retagged 1936 on 1 Oct 87) | 1933                               | (rt ear tag in poorly, double tagged)                                                      | " "                           | " 11, 15                               |
|                             | 1934 (lost)                        | ♀, subadult, imp., nullip.                                                                 | " "                           | " 8, 12                                |
| Aug 15                      | 1935                               | ♂, early mature, TND.                                                                      | " " "                         | " 10, 12                               |
| Oct. 2                      | 1942                               | ♂, Early mature. TND.                                                                      | " " "                         | " 4, 18                                |
| Oct. 5                      | 1947                               | ♀ Tagged left ear. Rt. tag, ripped out when putting on. Early mature, imperforate, nullip. | " GRID RC-1.                  | " 4, 16                                |
|                             | 1948                               | ♀ Mature, parous, perf., Kats swollen.                                                     | " " "                         | " 7, 15.                               |
|                             | Two huge warts on throat.          |                                                                                            |                               |                                        |
| Oct. 6                      | 1950                               | ♂ Subadult, TND.                                                                           | " " "                         | " 9, 17                                |
| Oct 12                      | 1953                               | ♀ Sub, imp, nullip.                                                                        | " - " "                       | " Grid RC-1 drift fence. St. E-9 (out) |
| Oct. 19                     | 1956                               | ♂ Mature, TND.                                                                             | " - " "                       | " GRID MC-1 drift fence St. W-9.       |
| Nov. 11                     | 1972                               | ♂ " "                                                                                      | " - " "                       | " GRID RC-1 drift fence. St. E-5 (in)  |
| Nov 14                      | 1978                               | ♂ " "                                                                                      | " - " "                       | " West of Grid RC-1                    |
| Nov 16                      | 1980                               | ♂ Mature, TND                                                                              | " - " "                       | " " " "                                |
|                             | 1981                               | ♀ Mature, imp, nulliparous,                                                                | " - " "                       | " " " "                                |
| Nov. 25                     | 1103                               | ♀ Mature, imp, nulliparous. 215g                                                           | " - " "                       | " Transect east of RC-1                |
| Nov 29                      | 1105                               | ♂ Mature, TND. 255g.                                                                       | " - " "                       | " GRID RC. St. 4, 14                   |
|                             | 1107                               | ♂ Imm, TND. 85g                                                                            | " - " "                       | " GRID RC. St 5, 9                     |
| Dec 2                       | 1109                               | ♀ Mature, perforate, parous. 245g                                                          | " - " "                       | " " 4, 18                              |



20

20



KIRBLE, D.O.  
1987

Neotoma fuscipes (3)

Hastings Natural History Reservation, Monterey Co., Calif.

|        |        |                 |       |            |              |         |
|--------|--------|-----------------|-------|------------|--------------|---------|
| Dec 9. | #1114. | ♂. Mature, TND. | 195g. | Ear-tagged | GRID WR St   | 10, 6   |
|        | 1115.  | ♀. SAD, nullip. | 125g  | " - "      | " " " "      | 8, 8.   |
|        | 1120.  | ♂. Mature, TND. | 215g  | " - "      | " " " "      | 16, 13. |
| Dec 10 | 1126   | ♂. Mature, TND. |       | " - "      | " " " "      | 1, 2    |
| Dec 18 | 1134   | ♂. SAD, TND.    | 150g  | " - "      | GRID MC. St. | 5, 8    |

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4033 33



















